



Nova Scotia

ANNUAL REPORT

*for the year
ending July 31, 1990*

Department of
Education

92-00044/

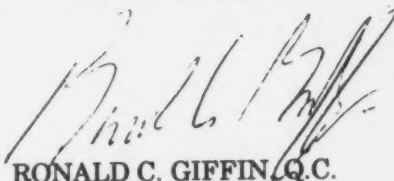
THE HONOURABLE I LOYD R. CROUSE, P.C.
Lieutenant-Governor of Nova Scotia

Sir:

I beg to present herewith the report of the Department of
Education for the year ending July 31, 1990.

I have the honour to be

Your obedient servant,

A handwritten signature in dark ink, appearing to read 'Ronald C. Giffin', is written over the printed name.

RONALD C. GIFFIN, Q.C.
Minister of Education



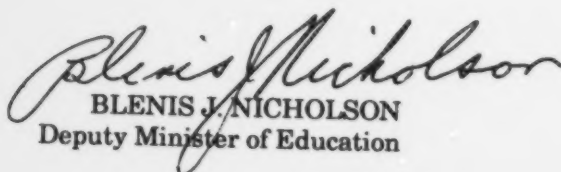
THE HONOURABLE RONALD C. GIFFIN, Q.C.
Minister of Education

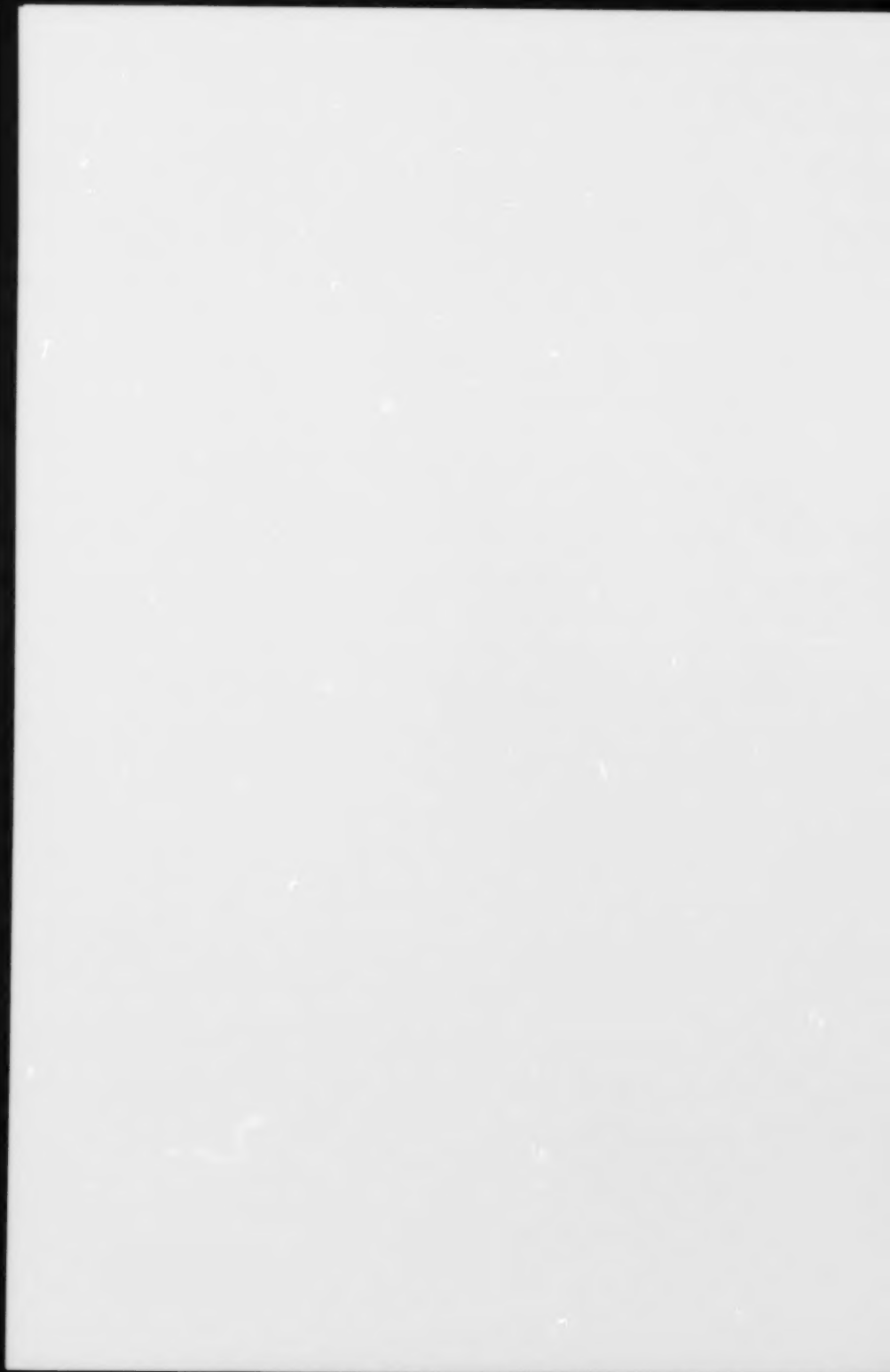
Sir:

I have the honour to submit the annual report of the
Department of Education for the year ending July 31, 1990.

I have the honour to be

Your obedient servant,

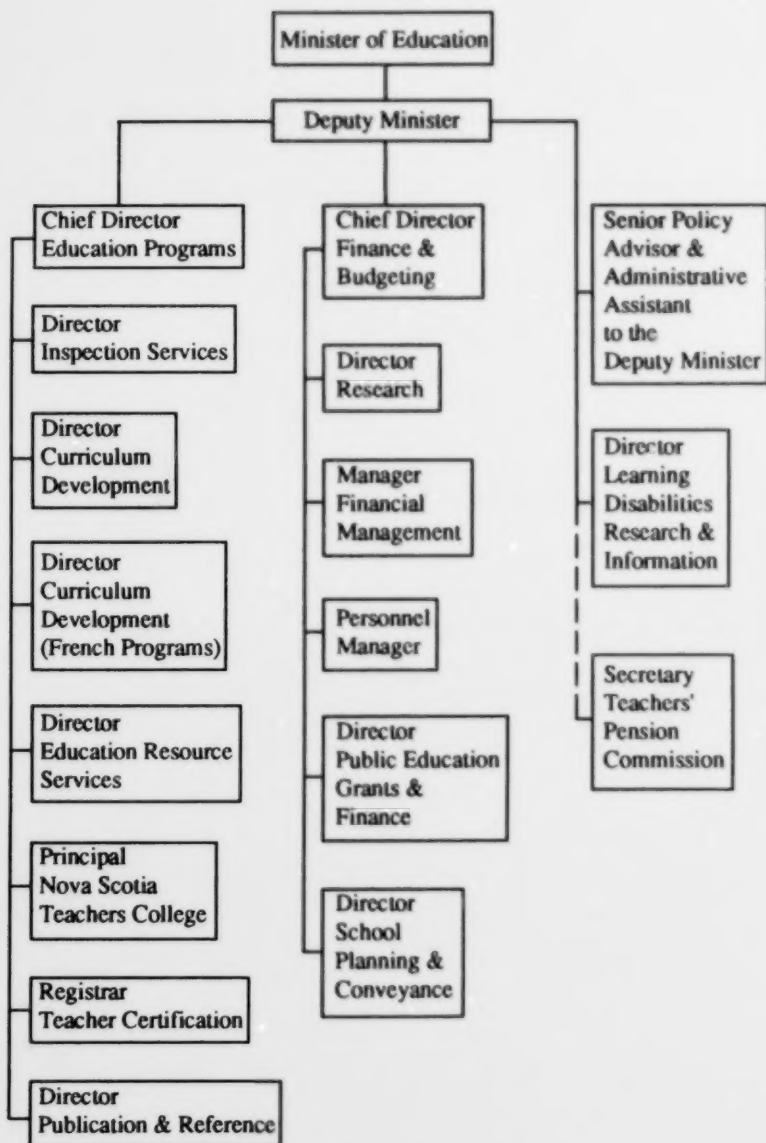

BLENIS J. NICHOLSON
Deputy Minister of Education



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Nova Scotia Department of Education 1989 - 90



DEPARTMENT OF EDUCATION: ADMINISTRATIVE STRUCTURE

The Department of Education is organized into the two main administrative areas described below, each headed by a Chief Director reporting to the Deputy Minister of Education. During the year under review, a Senior Policy Advisor and Administrative Assistant to the Deputy Minister was appointed. Also reporting directly to the Deputy Minister is the Director, Learning Disabilities, who assesses and makes recommendations regarding policies and services across government departments with respect to learning disabled people.

The Teachers' Pension Commission, although not part of the Department of Education's administrative structure, receives support services from the department. For the year under review, the Commission will be publishing its own annual report. Information on Teachers' Pension activities will, therefore, not be included in this Department of Education annual report.

Education Programs

The Education Programs area includes the following divisions: Curriculum Development (English and French divisions), Inspection Services, the Nova Scotia Teachers College, Teacher Certification, Education Resource Services, and Publication and Reference.

The Curriculum Development divisions, which are responsible for elementary and secondary education programs, co-ordinate curriculum development, recommend appropriate instructional materials for inclusion in the authorized lists, and provide consultant services. These divisions assist in the planning and implementation of in-service programs and have consultants in a variety of subject areas. Curriculum Development (French Programs) also administers several language bursary and assistance

programs funded by the Secretary of State. Curriculum Development (English) operates the department's correspondence study service.

The staff of Inspection Services consult with school boards, school administrative staff, and the general public; provide the Minister and departmental staff with information on the school systems in their inspectorates; serve regionally as interpreters of departmental policy and procedures; co-ordinate school system surveys; and work with the Nova Scotia Teachers Union and the Nova Scotia School Boards Association in the Teaching Effectiveness Program.

The Nova Scotia Teachers College provides education programs for those entering the teaching profession, and also offers a variety of courses for teachers interested in furthering their professional education.

The Teacher Certification section supervises and maintains records on the registration and certification of teachers.

The Education Resource Services Program includes the Nova Scotia Museum, Education Media Services, and the Provincial Library. The Museum acquires, preserves, interprets, and displays artifacts related to the natural and cultural history of the province, operates a number of historic buildings throughout Nova Scotia, offers a variety of programs to schools and the general public, and provides financial and advisory support to local museums. Education Media Services provides schools with the resources of a media library, an audio-visual equipment repair service, a microcomputer resource centre, and various audio-visual productions, including educational television programming. The Provincial Library provides various services to the regional libraries of Nova Scotia, administers library grants, and, in general, co-ordinates the library service of the province. The Provincial Library also provides assistance to schools through a Co-ordinator of School Libraries.

Publication and Reference publishes periodicals for teachers, consolidations of legislation, directories of schools, and various other bulletins related to education. This section also provides a general editing service for the department, answers inquiries from the public and the news media, and helps to arrange publicity for departmental events.

Finance and Budgeting

The Finance and Budgeting area includes the following: Financial Management, Personnel, Public Education Grants and Finance, School Planning and Conveyance, and Research.

The Financial Management division co-ordinates the budget presentation of the department, controls the internal financial operations of the department, provides an internal mail service, and operates a bureau that supplies school boards with textbooks and other learning materials.

The Personnel section provides for the maintenance of departmental personnel records and administration of other personnel services.

Public Education Grants and Finance co-ordinates the provision of education grants to school boards; reviews school board budgets, revenues and expenditures to ensure compliance with legislation and regulations; and provides advisory services to school boards to promote sound and consistent financial management practices.

School Planning and Conveyance develops construction programs for all approved school capital construction projects; monitors school construction to ensure all mandatory requirements and departmental standards are adhered to in the planning of new school facilities; arranges for the funding of construction and monitoring to ensure debt payments are made; and monitors school bus purchasing and

school transportation systems to promote high standards of cost-efficiency, service, and safety.

The Research division provides for collection and analysis of statistics on teachers, students, subjects taught, and finances; operation of provincial student achievement testing; services related to GED examinations; maintenance and development of the department's centralized database; and advice on the development of departmental management information systems.

EDUCATION PROGRAMS

CURRICULUM DEVELOPMENT

Staff of Curriculum Development, with task forces consisting of teachers from across the province, have begun revising senior high school courses to conform to the approved recommendations of the Minister's Advisory Committee on the Public School Program. West Pictou District High School will be operating developmental curriculum pilots of new or revised high school courses beginning in September 1990. As part of the preparation, staff of Curriculum Development hosted a whole school in-service activity in May and consultants for the curriculum areas in which courses are to be piloted have begun working closely with pilot teachers at the school. In 1990-91, developmental pilots will be conducted in English language arts, ancient and medieval history, and physical geography at grade 10. Departmental staff have been working closely with staff of Pictou District to develop the resources and structures necessary to begin to implement the recommendations of the Minister's Advisory Committee.

English language arts, grades primary to 12, continues to be a provincial curriculum priority. At the elementary level, an English language arts assessment project has been developed and field tested in several schools, with wider field testing to be carried out during the 1990-91 school year. At the secondary level the major focus has been the development of pilot courses for grade 10. New English language arts resources have been authorized for use by students, teachers and parents. An in-service video program to support the elementary language arts program is being produced in co-operation with the Halifax County-Bedford District School Board.

As a joint project of the Research and Curriculum Development branches, the second Elementary Mathematics Program Assessment was administered to all grade 5 students in Nova Scotia in May-June 1990. The results of these assessments have been distributed to districts in the form of summary assessment reports and a report noting the

implications for instruction. As a result, there have been many requests for department support which has been provided by the elementary co-ordinator and the mathematics consultant who have helped board staff analyse district results, plan in-services and, in general, re-focus priorities in the mathematics program and its delivery.

At the junior high level, mathematics networking and in-servicing became a priority in many districts as a result of the major mathematics junior high provincial in-service held in May 1989.

At the senior high level, the major focus has been the development of pilot courses for grade 10 mathematics. Major tasks have included the design of a core program suitable for all students, a search and field-testing of instructional practices supporting student-centred learning, and the development of appropriate assessment tools for mathematics learning. Many instructional resources and materials have been researched and reviewed in an effort to develop appropriate support resources for secondary level (7-12) teachers and students.

The department continued to make available, through the Nova Scotia School Book Bureau, computer software to support learning in various subjects in grades primary to 12. The Microcomputer Resource Centre, a joint project of Curriculum Development and Education Media Services, was the focal point of software evaluation and also hosted in-service and pre-service teacher training activities. A full-time microcomputer assistant, hired in January 1990, provided increased access to the demonstration lab and responded to telephone inquiries from teachers and staff.

The department held its Second Annual Summer Science and Technology Education Institute during July 1990. High school science teachers from all regions of Nova Scotia studied recent developments in science, engineering and technology and collaborated on effective teaching strategies.

During June 1990, high school teachers participated in a symposium on innovative teaching strategies and curricula.

The senior high industrial arts task force recommended a new senior high school program model for the development of the program for 1990-1995. A new program name – Industrial Arts Technology Education – was recommended and adopted. The senior high school task force has also developed a new course entitled *Exploring Technology* which will be piloted in five schools in the province.

The special education consultant held a series of in-services on communication, cognitive strategies, links between resource teachers and classroom teachers, understanding the student's perspectives, and adapting teaching to meet the needs of more students. These in-services took place both at the elementary and secondary levels. The special education consultant also worked with the guidance consultant to organize three days of professional development for school district teams on non-violent crisis intervention.

Under the leadership of the special education consultant, five regional meetings were held at which educators from primary to 12, representing different roles within the school system, were invited to share their opinions and concerns regarding the role of resource teachers. These regional meetings were part of the sharing of information that is an initial step in preparing guidelines on the role of resource teachers.

In the correspondence study division, students enrolled in 2528 public school program courses and 175 technical courses. Revision began on two correspondence study courses and the development of three additional courses was initiated.

Materials for alternative programs, including adjusted, intermediate industrial and work education, were reviewed during the year.

One alternative program was approved as a pilot. Four school boards received federal government grants in support of co-operative education programs and eight school boards received federal grants for work orientation workshop programs. Several district school boards worked on the development of course outlines for alternative programs.

A Ministers' Task Force Report on Work Experience and Co-operative Education was considered and policy in this area developed.

CURRICULUM DEVELOPMENT – FRENCH PROGRAMS

The past year has been one of increased activity in curriculum development. Personnel have been added to assist in the preparation and implementation of curriculum guides and the number of curriculum task forces has also increased considerably.

Several documents previously existing only in English have been translated and distributed to schools. These include the School Register and the Provincial Elementary Mathematics Test. A guide for elementary resource teachers is being written simultaneously in both official languages. Junior high guides for immersion and French language are nearing completion. The social studies guide for elementary grades entered its implementation stage and a committee is preparing a new guide and support texts for junior high.

For the first time, classes in grades primary to 9 were offered in French first language in Sydney, and plans are currently under way to phase in the high school program in 1991-92.

The division participated in a joint planning meeting of continuing education and curriculum supervisors. Each school board received a grant for use in their minority language continuing education programs.

A major effort was made to improve the quality of libraries to support educational programs. This will continue to be a high priority in the future.

Ten French summer camps for students were held during the summer as well as an immersion program for teachers.

In conjunction with Université Sainte-Anne, a training program was developed for teachers. A new consultant responsible for teacher training and professional development has been named. In addition, a diploma for French second language teachers is currently being developed.

Full and part-time programs for French-language "moniteurs" were very successful. A five-day training program for the "moniteurs" was held. During the year, students were once again assisted with language bursaries.

The Province of Nova Scotia is grateful to the Department of the Secretary of State for the funding which facilitated these projects.

INSPECTION SERVICES

At the end of the period under review there were eight Inspectors and ten secretaries in field offices throughout the province. One inspector's position was vacant. The administration office staff consisted of a director, an assistant director and two secretaries.

The inspectors consulted with and advised school boards and their administrators on a variety of matters related to the improvement of instruction. They attended all board meetings and many board committee meetings and met regularly with senior staff. During these meetings each acted as a resource person, communicated departmental policies, and helped boards develop policies and procedures consistent with current directions of the Department of Education.

Through these meetings and contact with schools and the public, inspectors were able to advise the Minister on current or potential matters of concern. Inspectors had an especially important role in advising board members and staff regarding the revised high school program and the recently published consultant report on financing of education.

Inspectors monitored private schools and individual cases of home study, ensured that schools, school boards and teachers operated within the statutory guidelines of the province, and audited data submitted by school boards for formula funding and other statistical purposes. All board level in-services were approved and all pilot programs monitored. In addition, assistance with the interpretation of the provincial testing program was provided at the board level. Inspectors were active with senior board staff in promoting public relations programs and the development of short and long-range plans.

Inspectors worked closely with various sections of the department. They assisted School Planning in all aspects of school capital construction; they worked with the Curriculum section on various projects; and assisted the Research section in many endeavors, notably the development and use of new mathematics tests. Each inspector accepted a particular "Provincial Area of Concentration" project which helped to extend departmental input in important aspects of the provincial education picture. Inspectors joined other department staff and selected staff of public school boards in conducting audits and surveys of various aspects of education in the province.

Through the leadership of the assistant director, the Teaching Effectiveness Program – a co-operative venture of the department, the Nova Scotia Teachers Union and the Nova Scotia School Boards Association – continued to grow. At the end of the academic year, all boards were involved in the program and 98% of the province's school administrators (principals and vice-principals) had participated in

workshops and in-services related to formative supervision and summative evaluation. All boards now have policies which reflect the concepts of formative supervision and summative evaluation (18 boards have approved policies, 3 boards have draft policies).

The instructional strategies strand of teaching effectiveness focusses on helping educators recognize the urgent need for the use of a broader range of instructional strategies if classrooms are to become truly more learner-centred. Administrators who have attended summer workshops in instructional strategies from 1986 to 1990 represent:

83% of all high schools in Nova Scotia
63% of all junior high schools in Nova Scotia
83% of all elementary schools in Nova Scotia
or 76% of all schools in Nova Scotia.

This five-year "summer project" has provided a firm foundation for administrators who now must assist teachers in broadening their repertoires of instructional strategies.

The adult education activities and interests of the Department of Education continued to be co-ordinated by Inspection Services. This met a need expressed by several school boards and reflected the department's commitment to promote adult literacy and make available general education courses to adults.

TEACHER CERTIFICATION

The office of the Registrar-Teacher Certification is responsible for issuing all teachers' certificates, maintaining teaching service records, and approving courses and programs for certification upgrading. In addition, the office provides verification of this information to interested parties, including school boards and other departments of education.

During the period August 1, 1989, to July 31, 1990, teachers' certificates and permits were issued as follows:

Initial Certificates	779
Upgraded Certificates	706
Permanent Certificates	346
Renewed Certificates	1,113
Reclassifications	6
Name Changes	54
Duplicate Certificates	87
Permits	36
Vocational Permits	13
Regulation 48 Certificates	12
Total	3,152

In addition, the office provided other services as follows:

Verification of Certification and Service	836
Detailed Records of Teaching Service	682
Statements of Professional Standing	734
Course Approvals	378
Program Approvals	421
Revised Data Verification Forms	327

The Registrar's office also responds by telephone, mail, and personal interviews to a large volume of inquiries from teachers, school boards, and others interested in teacher certification.

NOVA SCOTIA TEACHERS COLLEGE

The highlight of the year was the admission of the first degree class to the College.

The College had a full time enrolment of 335 in Teacher Education on December 1, 1989, divided among programs as follows: Early Elementary - 105; Intermediate Elementary - 80; Junior High - 58; Physical Education - 55; and Industrial Arts Technology Education - 37. After December, there were twelve additions - all returning students, ten of whom had attended the Université Sainte-Anne during the fall semester. Three students completed the requirements for graduation in January 1990, and nine students withdrew from the College. The active full-time enrolment at the end of the second semester was 335.

At the convocation held in May 1990, a total of 108 students received their Associate in Education diplomas in the following programs:

Early Elementary	39
Intermediate Elementary	23
Junior High	12
Physical Education	19
Industrial Arts Technology Education	15

The College also conducted active continuing education and summer school programs and more than 1000 students participated in 73 credit and non-credit courses on the College campus and in other centres.

The senior administration of the College changed when Dr. Margaret Swan retired. Dr. Jamie Muir became Principal on August 1, 1989 and Dr. Bernie MacDonald, Chairman of the Industrial Arts Technology Education program area, and a Nova Scotia Teachers College alumnus, assumed the Vice-Principalship on September 1.

This year, the position of visiting research associate was established to promote and facilitate research directly related to the improvement of education in Nova Scotia. The first Visiting Research Associate, Emmet Currie, was on leave from his position as Executive Director of the Nova Scotia Teachers Union. Mr. Currie not only undertook studies in educational leadership but also made a significant contribution to other facets of college life.

The College's physical plant continues to be heavily used by outside educational groups, including St. Mary's University, which for the second year offered a year of further study to Teachers College graduates which enabled 35 of them to complete their Bachelor of Education degree on the Teachers College campus. In addition, St. Mary's held M.Ed courses here for area teachers. Another major user of College facilities was the Nova Scotia Community College, which once again conducted a Basic Training and Skills Development Program for Native People during the academic year.

The College processed more than 900 applications for full time study. The quality of applications continued to be very high. A Teacher and Administrator Supply and Demand Study is being conducted by the Maritime Provinces Education Foundation and this report should assist the College in determining if the size of the current input quota is appropriate.

There were two major improvements in College facilities this year. The playing field has been completely rebuilt, and the Manganese Mines Field Study Centre, Gittens Lodge, underwent extensive repair and refurbishing.

The College continued its sponsorship of cultural events which were open to the community at large. Included were six art exhibits, the inaugural Dawson Lecture given by Robert Harvey to celebrate the 135th Anniversary of the official opening of the College, and two book launchings.

The College continued its leadership in human rights education and "Human Rights Day" substituted for regular classes on February 15.

In conjunction with the Curriculum Section of the Department of Education and the Multicultural Education Council of Nova Scotia, the College hosted and helped organize an "Invitational Symposium on the Education of Native Students in the Public School System in Nova Scotia." This meeting was the first of its type held in the Province and afforded the opportunity for Natives and non-Natives to share information, ideas and concerns, and to make recommendations about the education of Micmac students in the public schools of Nova Scotia.

In addition to carrying out extensive in-service work for teachers in nearly all parts of the province, many faculty carried out other professional activities. Faculty members attended and were presenters at a large number of conferences, workshops, panels and seminars; they participated in task forces, made speeches, served on editorial boards and published papers. Professor C. Doane, Dr. John Grant, Professor Alan Moore, Dr. Jane Norman and Professor Paul Zann had books published.

Child Development Services offers a two-year Diploma in Early Childhood Education and a Diploma in Special Education for those who complete a further year of study. These full time programs, sponsored jointly by the Departments of Education and Community Services, enrolled more than 200 students. Sixty-seven students received the two-year Diploma in Early Childhood Education and seventeen received the Diploma in Special Education at the College's spring convocation. In addition, approximately 350 students were enrolled in certificate studies in 22 extension centres in the four Atlantic provinces.

A highlight of this past year was the awarding of nearly \$260,000 in grants to Child Development Services by Health

and Welfare Canada. This money enabled the development and implementation of a circulating library, which makes available a variety of resource material, texts and children's books to the extension classes throughout the Atlantic area.

EDUCATION RESOURCE SERVICES

Nova Scotia Museum Complex

Collections

The provincial natural history collections were enlarged through new material obtained partly from a limited field effort but mainly from donations and purchases. Significant donations of marine invertebrates (J. S. Bleakney collection) and molluscs (C. A. Gibbs collections) were received. Collections of agate and amethyst (B. Ivers collection) and gold specimens were purchased with funds from the Museum donations account. A highlight was the discovery, collection and conservation of a rare Ice Age mastodon tusk and bone fragments, acquired with the co-operation of Fundy Gypsum Company. The computerized catalogue of the ornithology collection was upgraded to national standards.

Collections cataloguing at Haliburton House was substantially complete by year end. The History Section (Nova Scotia Museum) recorded 259 accessions for the period, including toy collections received from several donors, enhancing the Museum's collection of early 20th century toys. A significant discovery of Paleo-Indian material was made at the site of the Department of Lands and Forests tree-breeding centre in Belmont, Colchester County. This discovery, which is near the original Debert Paleo-Indian site, is expected to yield new information about this period during research and excavation activities over the next number of years.

With the help of a Registration Assistance Program Grant from the federal Department of Communications, the

Maritime Museum was able to create computer records for over 17,400 artifacts. Although much work needs to be done to enter more information on these artifacts, staff are now able to instantly retrieve basic information about any of the accessioned artifacts in the collection. Substantial progress was made in the development of registration systems and the registration of artifacts.

Research

Research subjects in the Natural History section included stratigraphy, history of botanical illustration, molluscs, insects, fish, mammals and ornithology. A major effort was devoted to the completion of field work in this fifth and final year of the Maritime Breeding Bird Atlas project. The Museum provides logistical support for this project. During 1990 other field research focussed on freshwater fishes and invertebrates and the documentation of candidate ecological sites. Two papers were published and three have been submitted for publication.

A paper on the *Nova Scotia Museum Shipwreck Inventory* was presented at the Museums and Technology conference in Winnipeg, May 1990. Requests for the shipwreck data dictionary have come from England, Denmark, Sweden and the U.S.A. as a result of this conference. The project team was recognized for its efforts with the awarding of the Canadian Museums Association's "Award for Outstanding Achievement" in the collections management category. A *Graveyard Inventory Guide & Data Dictionary* was produced in June 1990. This has also been well received, with copies requested by both Nova Scotians and researchers in places as far removed as Hawaii, Alaska, and California.

The six-year project of cataloguing the Hopps Collection of Micmac material was completed and four minor 16th century Micmac sites were inventoried. Computer entry of these records is complete and the manuscript essay, catalogue and inventory await publication as a curatorial report. A paper

was published on "Two Nineteenth Century Collectors" in the *Journal of American Ceramics*, Vol. VI, 1990 and a paper on "The Repatriation of the Surgical Instruments of Dr. John Stewart" was presented to the Dalhousie University Society for the History of Medicine.

The Museum also supports the work of 16 research associates.

Exhibits

This year was highlighted by the production of several major temporary exhibitions. *Sable Island: A Story of Survival* was completed and began its national tour. It has been shown at museums in three provinces, including the Canadian Museum of Nature in Ottawa, and will continue to travel for several years. At the Nova Scotia Museum, *Laundry Day* was an exhibit that displayed the museum's extensive collection of artifacts for washing, drying and ironing clothes. Both of these exhibitions won Awards of Merit from the Graphic Designers Association of Canada. *Five Hundred Years of Botanical Illustration* brought together over 200 pieces of art work, many borrowed from institutions in the Atlantic provinces. This exhibit has been displayed in Halifax and will be shown in Saint John, New Brunswick in 1991. The *Recent Additions to the Collection* exhibit gave an opportunity to show visitors what the Museum acquired over the past year and to thank the many donors to the Museum.

The Maritime Museum's exhibit galleries have been enhanced greatly over the past year. An exhibit on the Merigomish goose boat was completed, two large permanent showcases for the use of temporary displays were installed, and six new temporary showcases were completed. The design and research for the exhibit on competitive rowing in Nova Scotia was completed.

The exhibit development committee for the Museum of Industry made significant progress towards the completion of the storyline for the permanent public exhibitions.

Special Places

Three sites under the Special Places Program were designated during the year under review: Parrsboro Fossil Site, Sporting Lake Nature Reserve, and Indian Man Lake Nature Reserve. Work on the resource description for the candidate site at Ponhook Lake was begun, and a public awareness program for the rare species found there was funded by a grant. In addition, the Nova Scotia Museum's first research grant was awarded to Dr. Nick Hill, of Mount Saint Vincent University, for a study of bogs in southwest Nova Scotia.

In archaeology, a record 22 heritage research permits were issued. Significant work was undertaken at Debert, Castle Frederick and Minas Basin, and many other projects were conducted through, or because of, the Environmental Assessment Act.

Museum Assistance Program

Operating grants totalling \$709,600 were given to 16 year-round local museums and 34 seasonal museums received \$156,300. Regular annual and semi-annual meetings sponsored by the Nova Scotia Museum for seasonal and year-round museums respectively are now an established method of communication and co-ordination within the museum community in Nova Scotia.

Two new local museums, the Antigonish Heritage Resource Centre and the Milton Blacksmith Shop, received approval in principle from the Nova Scotia Museum Board of Governors for operating assistance. The Annapolis Valley Macdonald Museum was closed in April 1990 pending major structural repairs to the building.

Branch Museums

The operating season for seasonal branches of the Nova Scotia Museum was shortened from a closing date of October 31 to October 15 as a cost saving measure. The visitor response to the longer season did not justify its continuation. Several training and advisory projects were carried out with branch museum organizations, including first aid training, housekeeping standards, job descriptions and organizational planning at Ross Thomson House and Sherbrooke Village and a staff seminar on the Uniacke Estate.

Programs

Public programs, media interviews and response to public inquiries continue to be major parts of the program. Progressively more time is being spent on public and professional inquiries each year. This is seen as an important Museum public service at all branches.

Preliminary plans for a new school program at the Maritime Museum entitled "The Age of Sail" were completed in conjunction with the Education Section of the Nova Scotia Museum. It is expected that this program will begin in January 1991, joining the successful high school oceanography program, which was developed six years ago.

School visitation totals continue to run at about 65,000 for the Nova Scotia Museum Complex. Overall attendance in the Complex (for the calendar year) was 634,198, a decline of about 1%; this was considerably less than the decline in tourist visits to the Province. At the Nova Scotia Museum (Summer Street), a March Break program on reptiles attracted 11,000 visitors in eight days.

Publications

Regular publications such as the bi-monthly newsletter, *News & Views*, and the "Learning Resources Catalogue" were

maintained. Staff provided editorial and design assistance to the Halifax County School Board for a science newsletter for elementary students. New books published included Alan Penney's *Houses of Nova Scotia* and *Louisa's Diary* (in co-operation with the Cole Harbour Heritage Society).

Technical work is continuing on the revised edition of the *Flora of Nova Scotia*. A major review of the *Natural History of Nova Scotia* resource book tied to the development of a provincial systems plan for parks and protected areas was begun and will continue through 1993. This is a joint project with the Department of Lands and Forests and Department of Environment.

Capital Projects

A large amount of maintenance work was conducted at the Maritime Museum's facilities. The Department of Government Services undertook work to repair wharf piles on one side of the Museum's wharves, but more work needs to be done in the next few years.

The construction of the Nova Scotia Museum of Industry reached substantial completion in May 1990 and the building was taken over by the Department of Government Services in June. The work on the Cornish Pumphouse to restore the structure to its original design was approximately two-thirds completed. A temporary roof was put in place and the remaining stone was enclosed by chain link fence.

During the period under review, the Museum of Industry was involved in various capital projects and acquisitions. These included the furnishing of the staff offices, library, documentation lab, design studio and restaurant; the equipping of both woodworking and metal shops; the acquisition and installation of storage systems; the acquisition of a number of major artifacts; the conservation and restoration of ten major artifacts and the completion of eleven research projects related to the development of the exhibit storyline.

Further information on the Nova Scotia Museum Complex is given in the charts and tables section of this report.

Education Media Services

The Locally Initiated Curriculum Resource Program (LICRP), which has developed at Education Media Services (EMS) over the past several years, provides a means for teachers who have received appropriate board approval to seek support from the Department of Education in developing a curriculum resource. The decision to support the project is based on the province-wide applicability of the project and its relationship to overall curriculum priorities. Three production projects, "Louisbourg Re-enactments", "Selling a Port" and "Supportive Classroom", were done as LICRP projects.

During the year, EMS played a lead role in the planning of the first National McLuhan Awards Program which honored three Nova Scotian teachers.

The Media Library and Production units have been heavily involved in developing resources to portray the role minority groups have played and continue to play in our province. Particular emphasis has been placed on resources concerning the Black and Native communities.

EMS continues its involvement with educational broadcasting, making use of one-half hour per day on CBC, and is responsible for scheduling educational broadcast time on the Atlantic Satellite Network.

Media Production

The production unit completed 24 major video and audio projects, along with still photographic and design work requested by the Nova Scotia Museum Complex.

Audio production included a large series of "called" square dances to support the square dancing program of the physical education curriculum in Nova Scotian schools, as well as sound effects tapes to support various Nova Scotia Museum and Maritime Museum exhibits. Support was provided to the Micmac Association for Cultural Studies in their duplication of audiotapes of Micmac hymns.

Video production included "The Louisbourg Re-enactments", a bilingual series of three videotapes depicting domestic life in 18th-century Louisbourg, produced in co-operation with the National Parks Service and the Cape Breton District School Board. This series was subsequently nominated for a Golden Sheaf Award at the Yorkton International Film Festival. EMS also produced an in-service series, "The Power Framework", intended to help teachers introduce student-centred learning into the Maritime Studies curriculum; "In Court", a training series on courtroom procedure produced for the Department of Fisheries and the Department of the Attorney General; and five recruiting productions for various programs and institutions of the Department of Advanced Education and Job Training. "Selling a Port: How is it Done?", an EMS co-production with the Halifax County District School Board, which seconded one of their teachers to the project, was completed in 1990, and won an AMTEC Award of Excellence and the Panasonic Award for best educational video at the AMTEC '90 Media Festival in St. John's. This video is a classroom resource to support Maritime Studies. Three programs of another teacher-initiated series, "The Supportive Classroom", were also completed during this period. Production was also under way on a video resource to introduce teachers and other caregivers to lifeskills training for multi-handicapped students.

Training and Consultation

Training sessions in schools and in the computer lab were continued. It is now a practice by some schools to use an

in-service day for teachers to meet at the computer lab and review sample software co-operatively.

Media Library and Repair

A review and general weeding of the elementary and secondary media collection was completed. All program synopses were reviewed, missing information and inaccuracies identified, and corrections completed on paper. Re-entry of corrections into the data base has begun and should be completed by the spring of 1991. It is anticipated that the collection will be restructured to better reflect the public school curriculum and that a new catalogue of current and archival media resources will be prepared and distributed.

Teachers in the field increasingly consult EMS before acquiring video materials to take advantage of centralized purchasing and to make efficient use of school-based resource dollars.

In this past year EMS concentrated its resource efforts in the following curriculum areas: personal development and relationships; senior high science, media studies, social studies, and mathematics; elementary health and language arts. Other curriculum areas received attention as particular programs were identified to meet curriculum goals.

Media Library personnel worked with the Nova Scotia Reading Association, the Nova Scotia Teachers College and Mount Saint Vincent University's DUET studio to produce an interactive distance education, teacher in-service, television and audio conference, "Evaluation in the Language Arts Classroom". The program was seen by teachers gathered at six sites throughout the province, and by teachers and parents alike in their homes. The signal was also received in New Brunswick, Prince Edward Island and Newfoundland.

A second interactive distance education broadcast proposal was developed jointly by EMS, Curriculum Development, the Commission on Drug Dependency and the Nova Scotia School Boards Association to meet the drug education needs of grade 5 and 6 students.

A print-based-advertising kit has been produced and the teacher and student guides are approaching the final draft stage. The kit will be distributed to senior high school language arts teachers in 1991.

The Media Library will conduct a pilot project to provide remote access to the Medianet data base in two areas of the province through telecommunications. The Lunenburg County District Teachers' Centre and the Education Resource Centre at the University College of Cape Breton serve the teachers of Lunenburg County and Cape Breton Island's four school districts respectively. As centres for teacher professional development and instructional design and materials production, teacher access to the Medianet collection through these centres provides an excellent opportunity to improve teachers' level of awareness of available media resources and the integrated use of the resources within the teachers' instructional design process.

The Media Library dubbed 10,000 hours of video programming for Nova Scotia public schools and circulated 50,000 units of film.

The equipment repair division serviced 1,800 pieces of school media equipment. The billing arrangement to boards for the service has been computerized by EMS administration.

Provincial Library

Highlights of the year included the production of the *Guidelines for Regional Library Service in Nova Scotia* by the Provincial Library Council and the planning for a very successful Eastern Shores Summer Institute for school librarians in Nova Scotia.

Administration

New Facilities

A program for new office space facilities was developed in preparation for the termination of the lease at the current St. Andrew's School location. This proposed move of Provincial Library/Education Media Services was temporarily postponed.

Recycling

A paper recycling program was established in the building and blue boxes were constructed and distributed. Contents are picked up regularly by a local recycling company.

Public Library Services

Grants

The 11 regional library boards received \$6.46 million in operating grants for the 1989-90 fiscal year and \$286,400 for branch library maintenance grants. In addition, two boards received French language grants in the amount of \$50,198 to assist them in the provision of library service in French. Eight capital projects (five new and three in progress), costing \$2.6 million, were approved. More information on grants is given in the charts and tables section of this report.

Three new public library branches were opened during the year. The Cole Harbour Branch of the Halifax County Regional Library opened in Cole Harbour Place in October 1989. This facility serves a large area of Halifax County which previously had no public library. Use of this branch

has far exceeded the library board's expectations and continues to increase.

The new Main Library in Dartmouth opened at Alderney Gate in June 1990. This facility nearly quadrupled the library's space and replaced the old library, which shared quarters with the Dartmouth Heritage Museum. The new Dartmouth Library is the first public library in Nova Scotia to have an automated library system and staff and public reaction has been very positive. Use of the Dartmouth Library has greatly increased with the move to the new facility.

The completely rebuilt New Glasgow Branch of the Pictou-Antigonish Regional Library opened in July 1990. After a year in two temporary locations, both the public and staff were pleased to have the new, greatly enlarged library reopened. The Branch now occupies the ground floor of the expanded facility with the Regional Library Headquarters on the second floor. Use of this facility has greatly increased as well.

Libraries Act

A review of the Libraries Act was carried out by the Library Boards Association of Nova Scotia and led to recommendations which resulted in several changes to the Act, mandating the appointment of a Provincial Librarian and allowing the term of municipal appointments to regional library boards to vary from one to three years as decided by the municipalities.

Regional Libraries Guidelines

Early in 1990 the Provincial Library Council produced a document entitled *Guidelines for Regional Library Service in Nova Scotia*. These guidelines, which have been formally accepted by the Minister of Education, provide a mechanism for regional library boards to assess and address the library service needs in their areas.

Special External Funding

Early in 1990 the 11 regional libraries jointly applied for, and received, a Secretary of State grant of \$101,100 to place a core collection of literacy materials in each regional library and to provide professional development training for library staff. The literacy materials will be for the use of both learners and tutors through the 73 branch libraries and 15 bookmobiles across the province.

The Provincial Chapter of the I.O.D.E. celebrated its 70th Anniversary in 1990 by raising more than \$7,000 to assist the Talking Book Service. Operated out of the Provincial Library, this service provides a centralized collection of talking books for print handicapped Nova Scotians through the regional library system. The money will be used to obtain Nova Scotia materials in talking book format.

School Libraries

Staffing

Upon the retirement of the Co-ordinator of the School Libraries Section, the position was filled through a two-year secondment of a teacher-librarian from a district school board. The incoming Co-ordinator made numerous presentations to school boards, district school library personnel, school staffs, regional librarians, library boards and related library groups.

Professional Development

In March 1990 the Co-ordinator hosted a Computers in School Libraries Think Tank, a one-day event which gathered experts and practitioners from across the province. The Co-ordinator was also responsible for organizing the Eastern Shores School Library Summer Institute held at Oak Island. It was supported financially by the Maritime Provinces Education Foundation and the Nova Scotia Teachers Union and attracted participants from Atlantic Canada, Quebec, Ontario and the United States.

Liaison

The Co-ordinator acted as Provincial Library liaison for the Nova Scotia Library Association's summer reading program, "Clue in to Reading/Lire c'est la Clef."

Technical Services

Special Projects

Technical Services staff participated in literacy initiatives of the Provincial Library by inputting all the orders, and cataloguing and processing the collections purchased through the literacy grant from the Secretary of State.

Support to Regional Libraries

Continued expansion of the province's public library system increased the pressure on the Provincial Library's support services to these libraries.

A total of 20,479 new titles were catalogued for inclusion in the regional libraries' microfiche catalogue. This is an increase of 8% over the previous year, for a total increase of 34% in two years. Some 74,738 items, including books, videos and spoken-word recordings in French, English and Gaelic, were received and processed. This is an increase of 13% over 1988-89.

Reference

This past year has been a very active one for the Reference Services Section. The volume of reference questions and interlibrary loan requests remained high.

Resource Sharing

One of the highlights of resource sharing was the signing of a contract with the National Library of Canada to input serial accessions from Nova Scotia libraries into DOBIS, the national online union catalogue. This development allows Reference Services to provide locations for serial interlibrary loan requests from Nova Scotia and out-of-province libraries

in a more efficient manner. New microcomputer equipment installed this year will allow Reference Services to access the Nova Scotia Universities database (NOVANET) on a regular basis to provide a truly comprehensive location service for Nova Scotia libraries.

Publications

Directory of Nova Scotia Libraries. Revised edition.

Guidelines for Regional Library Service in Nova Scotia by the Provincial Library Council Guidelines Committee.

Nova Scotia Regional Library Statistics.

Nova Scotia Regional Libraries Talking Books Catalogue.

PUBLICATION AND REFERENCE

Publication and Reference is responsible for answering general telephone and written inquiries to the Department of Education from students, teachers, parents, the news media, other education departments or institutions, and the general public.

Departmental publications produced by the section included the directories of schools and the *Education Nova Scotia* bulletin, containing official notices, articles on departmental policies, and miscellaneous information for teachers.

Assistance was provided by the Publication and Reference section to other sections of the department in producing curriculum documents and other miscellaneous publications.

LEARNING DISABILITIES

LEARNING DISABILITIES

The Learning Disabilities Section is responsible for assessing policies and programs for learning disabled individuals in the Province, and making recommendations for change. Although the primary focus is on Department of Education and school district policies and programs, the mandate extends across government departments, reflecting the fact that learning disabilities are life-long, and require multidisciplinary approaches.

During the year under review, the Director and Consultant made visits to district school boards to collect information and solicit input regarding services for students with learning disabilities. Information was organized to serve as an important resource in discussions with special education supervisors at a provincial meeting in January.

Staff helped to plan and run a conference in May 1990 entitled "Strategies for Success: Meeting the Needs of Adolescents and Adults with Learning Disabilities", which was jointly sponsored by the Departments of Education, Advanced Education and Job Training, and Acadia University. Over 200 people from a variety of disciplines and work settings across Nova Scotia attended the conference.

Staff continued to respond to public and private sector inquiries regarding programs and services for children and adults with learning disabilities. In addition, staff were involved with representatives from the other three Atlantic provinces in revising policies and procedures for referral of severely learning disabled students for private schooling through the Atlantic Provinces Special Education Authority, and in proposing an alternative model of service delivery.

In-service presentations on learning disabilities were made to school district staffs, school board members, literacy and career counselling co-ordinators and the staff of a community college. Staff of the Learning Disabilities section

were once again invited to give workshops on learning disabilities for first time participants in the Teaching Effectiveness Program for school administrators. In addition, two three-day short courses permitting more detailed coverage of the topic were attended by teams of school personnel from 11 different school boards in the province.



FINANCE AND BUDGETING

RESEARCH

The past 12 months have seen major changes in the hardware and software of the computer system for the department. Based on an applications approach, and following the department's system strategy for its central offices, a network of over 30 Macintosh microcomputers and printers, as well as other supporting hardware, was installed. This system permits a high level of office automation support, including word processing, graphics, spreadsheets, electronic mail and calendaring, as well as allowing access to the centralized database. The standardization of hardware and software has resulted in a uniformly higher standard of quality in materials produced, a higher level of automated office support and greater opportunity for co-operative work among staff of the various offices.

The Research section developed major information packages for the Doane Raymond study of the Formula Review Committee process and for the Maritime Provinces Education Foundation (MPEF) study of teacher supply and demand. A feasibility study concerning a student module as part of the centralized database was also completed. These projects, among others, have raised the profile of Research information and daily requests for information continue to increase. The secondment of two Government Services staff to Research has helped greatly in the section's ability to respond quickly and completely to requests.

The Nova Scotia Achievement Tests at grade 9 and grade 12 continue to operate and supply information for curriculum development at the local and provincial level. New methods of presenting information in a graphic form have increased the usefulness of results and made new interpretations possible. An MPEF study entitled "Investigation into the Effects of Provincial Testing" was carried out concerning the Nova Scotia Achievement Tests and results are scheduled to be available early in 1991. The grade 5 level of the test in mathematics has been given for the past two years and has

supplied valuable information for curriculum development at the elementary level. Plans have been progressing for the implementation of language arts tests at the grade 6 level.

The province is now involved with the International Assessment of Educational Progress program. A small sample of 13-year-old students was tested in mathematics as a pilot program this year in preparation for a larger scale sampling to be done in 1991. This program involves other Canadian provinces and 20 other countries.

The high school equivalency program (GED Tests) has continued as a highly successful service to adults. The first diplomas were issued in 1969 and the Minister of Education presented the 30,000th diploma this year. The new revisions of the test, which include a written essay, have proved equally successful and have increased the viability and reliability of the program.

Teacher exchanges, which are co-ordinated through the Research section, have continued at about the same level over the past few years, with 10 teachers coming to Nova Scotia from the United Kingdom, the United States, Australia, and other Canadian provinces.

SCHOOL PLANNING AND CONVEYANCE

School Planning

Ten school capital projects were completed during 1989-90. Three were new elementary schools, two were new high schools, one was a new school bus garage, two were additions to elementary schools, one was an addition to a grade primary to nine school, and one involved renovations to a high school. In total, the projects created the following additional instructional areas:

- 107 classrooms
- 32 specialist areas
- 7 special education classrooms
- 6 libraries
- 7 gymnasias

The Department of Government Services carried out all planning and construction-related activities on the projects for the Department of Education on behalf of the school boards.

Although no new major school capital projects were approved in 1989-90, 24 emergency projects, with an estimated cost of \$1,868,581, received approval. Seven asbestos abatement projects, with an estimated cost of \$939,829, were carried out during this period.

In addition to the division's involvement in school construction, staff participated in school system surveys conducted by the division of Inspection Services; assisted with in-service training sessions conducted by district school boards for maintenance and janitorial staffs; and helped in gathering data on underground storage tanks in use by district school boards in relation to requirements for replacing oil storage tanks pursuant to *The Petroleum Storage Regulations Under the Dangerous Goods and Hazardous Waste Management Act*.

Conveyance

Staff continued to be involved with conducting comprehensive conveyance system studies for school boards in order to help them improve the efficiency of school conveyance operations. Other staff activities included:

- Participation in the 20th Annual Pupil Transportation Conference held in Dartmouth. Sixteen school boards and eighteen contractors were presented with gold awards for

achievement for their efforts in school bus transportation safety.

- Assistance with in-service training sessions conducted by district school boards for conveyance staffs.
- Assistance to the Atlantic Provinces Special Education Authority through the selection of conveyance for hearing and visually impaired students and co-ordination of such services with district school boards.
- Participation in the development of provincial standards in preparation for government approval for a standard provincial school bus drivers course.
- Assistance to the Department of Advanced Education and Job Training with school bus routing operated in support of provincial community college institutions.

PUBLIC EDUCATION GRANTS AND FINANCE

The Public Education Grants and Finance Division is responsible for:

- distributing the global, non-global and non-formula grants to district school boards and other educational organizations in accordance with government legislation, regulations and policies;
- collecting and analysing (in co-operation with the Research Division) financial and operational information from district school boards in Nova Scotia to assist in decision making on funding and other policy areas; and
- performing special reviews and audits for district school board financial operations and management systems, as well as compliance audits on non-global grants to assess adherence to the regulations and policies under which such grants are disbursed.

The division is staffed by a director, an audit manager, a financial services officer, three audit officers (Halifax, Liverpool and Truro) and a secretary.

The audit manager position was filled in August 1989 by a professional chartered accountant. The incumbent has played an important role in implementing the division's plans with regard to expanded audits of school board operations.

Significant progress has been achieved in developing and implementing broader scope reviews of district school board financial management practices and procedures.

The Office of the Auditor General began financial management audits of district school boards in the fall of 1989. The Public Education Grants and Finance Division participated in the review and development of audit objectives and procedures. As well, one of the division's audit officers joined the audit team on one assignment.

The Office of the Auditor General plans to continue district school board audits in the future. The Public Education Grants and Finance Division will continue to offer support and assistance as feasible to ensure school boards benefit from this expanded scope of audit.

The division completed numerous audit assignments during the year. Along with performing all the required audits on non-global grants, staff conducted numerous in-depth budget reviews in the spring of 1990. These reviews were undertaken to assess the appropriateness of the budgets prepared and to assess the effect of 1990 funding on the school boards' operations.

The division also completed its review of the Cumberland District School Board. This assignment began in the spring of 1989 and assessed the spending practices and financial management of the board. An in-depth report was issued to the board in September 1989 and the director participated in

a monitoring committee to the end of 1989 which oversaw implementation of recommendations.

In other audit related matters, the director conducted a workshop in October 1989 for school board superintendents and inspectors of schools. The workshop focussed on value for money issues and the impact on school boards of this revised methodology, which is being implemented by both the Department of Education and the Office of the Auditor General.

A major aspect of the division's work involves participation and input into the annual formula funding process.

In September 1989, the Minister of Education engaged the management consulting firm of Doane Raymond to conduct a review of public education finance in Nova Scotia. The terms of reference for the study included a review of the mandate and process of the Formula Review Committee, the appropriateness of the existing funding formulas, and an assessment of accountability arrangements.

The Report was presented to the Minister of Education in December 1989. It was concluded that public input should be received on the report's recommendations. Therefore, transitional funding arrangements for 1990 were recommended by the Formula Review Committee, which met in January and February 1990.

The Doane Raymond Report was subject to extensive review by division staff. The Report will also be the subject of public hearings in September and October 1990. The School Grants Division will continue to play a major role in reviewing the Doane Raymond Report and assessing its impact on the financing of public education in Nova Scotia.

In the spring of 1990, legislation was enacted to change the fiscal year end of district school boards from December 31

to March 31. This will bring the school boards' fiscal year in line with the Provincial Government fiscal year. A transitional fifteen-month fiscal year from January 1, 1991 to March 31, 1992 will occur to implement the changeover. This change will improve budgetary processes and control.

The division was pleased to participate in the implementation of the computer hardware strategy for the department's central offices, which greatly expanded the use of computer technology by division staff. One highlight was the development of a computerized grant disbursement system that provided an efficient process for calculating and disbursing provincial grants to school boards.

Financial Highlights

The division was accountable for approximately 84.25% or \$571,031,100 of the total expenditures of the Department of Education in the 1989-90 fiscal year. Of this amount, approximately 96.3% or \$549,933,000 was disbursed to district school boards.

Grants to district school boards fall under two main categories. Boards may use *global grants* in accordance with their priorities to provide education services as required under the Education Act and Regulations, while *non-global grants* must be used for a specific purpose.

For the calendar years 1990 and 1989, provincial formula grants (excluding capital debt payments) to district school boards were as follows:

	1990 Budget	1989 Actual
GLOBAL		
General Formula	\$397,056,053	\$378,663,052
Supplementary	10,651,674	10,603,313
Property Service	67,436,760	66,941,314
Transportation	<u>35,787,184</u>	<u>35,011,911</u>
	<u>510,931,671</u>	<u>491,219,590</u>

NON-GLOBAL

Adult Education	\$ 2,405,982	\$ 2,401,636
Special Education	36,384,321	34,631,717
Driver Education	635,607	639,044
Summer School	1,007,200	1,018,586
Board of Pupils	<u>364,994</u>	<u>335,784</u>
	<u>\$ 40,798,104</u>	<u>\$ 39,026,767</u>

CAPITAL

Capital Equipment,		
Repairs & Renovations	\$ 2,170,230	\$ 8,681,072
Capital Bus Purchase	<u>3,727,320</u>	<u>4,479,840</u>
	<u>5,897,550</u>	<u>13,160,912</u>

<i>GRAND TOTAL</i>	<u>\$557,627,325</u>	<u>\$543,407,269</u>
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Total revenues of school boards by source (including capital debt payments and emergency capital) for 1990 and 1989 were as follows:

	1990 Budget		1989 Actual	
Province of				
Nova Scotia	\$606,853,373	79.9%	\$588,571,053	80.2%
Municipal units	128,676,682	16.9%	115,276,266	15.7%
Board generated				
revenues	<u>24,219,673</u>	<u>3.2%</u>	<u>29,587,780</u>	<u>4.0%</u>
	<u>\$759,749,728</u>	<u>100.0%</u>	<u>\$733,435,099</u>	<u>100.0%</u>

There were no major changes to the structure of the approved funding formulas for 1990.

The school board administration grant remained at \$400,000 for each board. Transportation continued to be funded on the basis of 100% of projected expenditures, but for 1990 was limited to a maximum of 108% of the 1988 actual transportation expenditures.

The special education grant was funded at a minimum of 70% of projected special education expenditures. A 5%

ceiling increase over the 1989 grant was applied to adult education.

Provincial capital equipment, repairs and renovations grants were only paid for the months of January, February and March 1990. This grant was calculated on the basis of 25% of the 1989 approved grant. The bus replacement grant was \$3560 multiplied by the number of board-owned buses.

Financial support for district school boards also included a per pupil allocation at the Nova Scotia School Book Bureau, grants for emergency capital projects, and grants to cover debt payments on funded debt for approved capital projects.

Other grants administered by this division are disbursed according to special agreements or under the authority of the Minister of Education. For the fiscal years 1989-90 and 1988-89, these grants were as follows:

	<u>1989-90</u>	<u>1988-89</u>
District School Board		
Transportation Subsidies	\$133,246	\$136,752
Nova Scotia Teachers Union		
Group Life/Medical/Dental	7,217,447	5,452,912
Nova Scotia Teachers Union		
Professional Development Fund	150,000	150,000
Shannon Francophone School	1,913,000	1,925,541
Cornwallis Francophone Classes -		
Sydney	79,843	See Note
French Language Special Projects	691,125	527,394
Maritime Provinces Education		
Foundation	124,700	125,388
Other - Non-Formula Grants	<u>750,632</u>	<u>293,703</u>
	<u>11,059,993</u>	<u>8,611,690</u>
Grants to Atlantic Provinces		
Special Education Authority	<u>\$10,038,157</u>	<u>\$9,343,293</u>

Note: Cornwallis Francophone Classes opened in September 1989.

FINANCIAL MANAGEMENT

The Financial Management division of Finance and Budgeting consists of three sections.

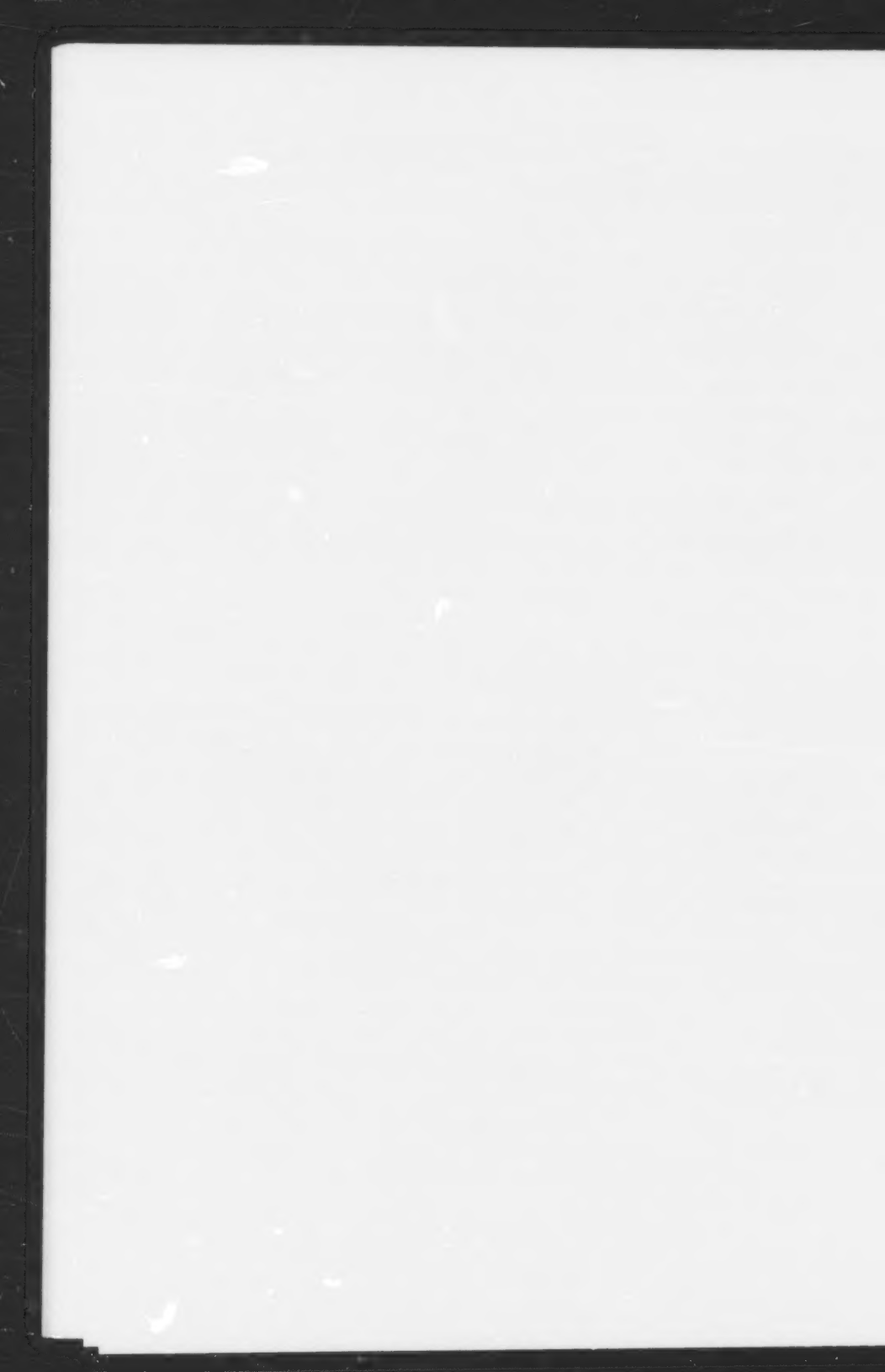
The Budgeting and Special Projects section is responsible for co-ordinating the preparation and presentation of the annual budget of the department, the monthly expenditure forecasts and special projects for Senior Management. Staff continues to improve the budgetary and forecasting process through automation.

The Administration and Accounting section is responsible for providing a centralized accounting and financial reporting function and general administrative services; for example, purchase requisition/order processing, and capital asset inventory control.

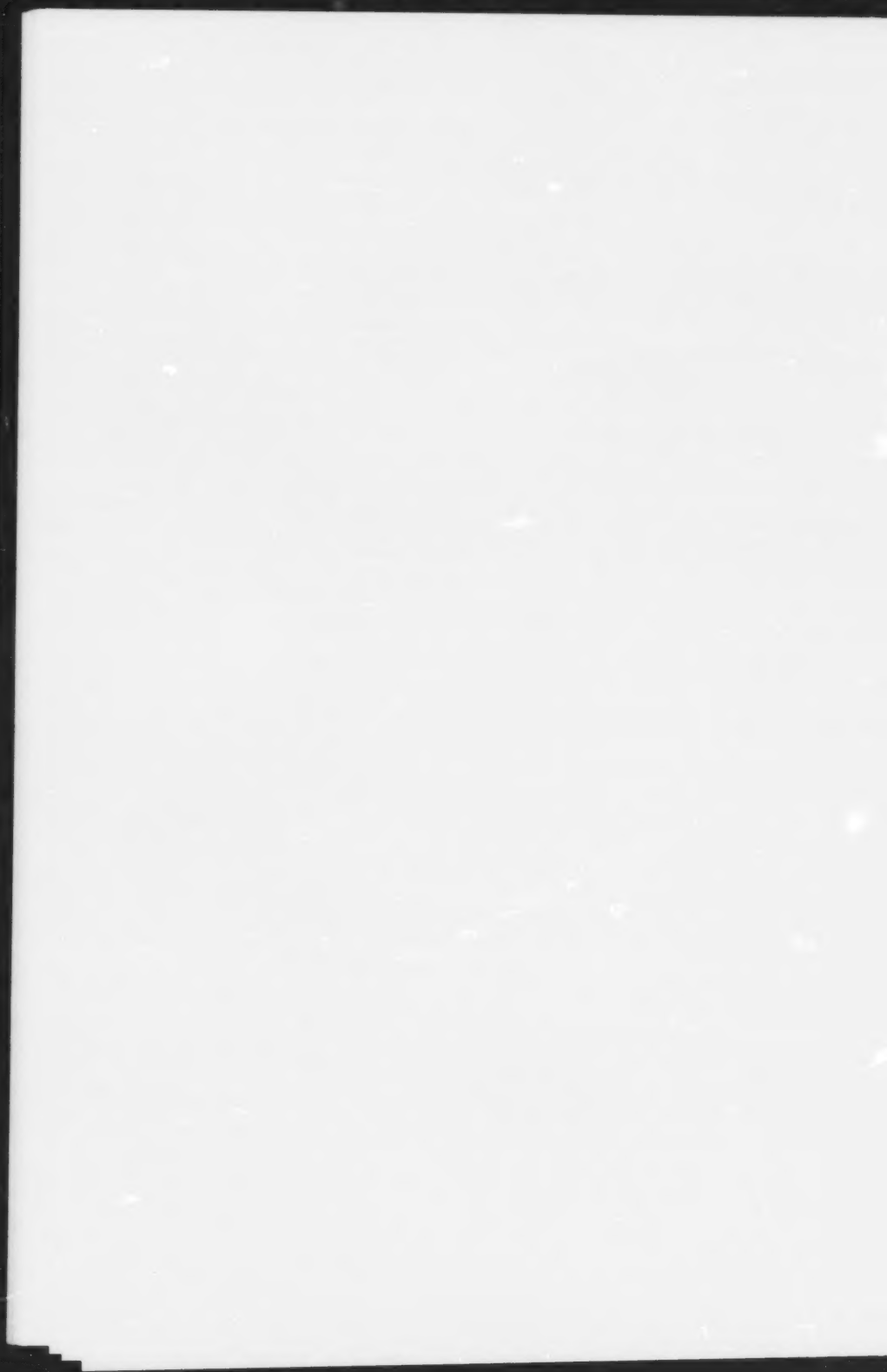
The Nova Scotia School Book Bureau is responsible for the operation of a central warehouse and office for the ordering, receiving, storage, control and distribution of all approved textbooks and learning materials to all public and certain private schools in Nova Scotia. Further information on the operations of the Bureau is included in the Tables and Charts section of this report.

PERSONNEL/PAYROLL SECTION

The Personnel and Payroll section prepares and records transactions for civil servants and casual staff of the Department of Education, distributes payroll cheques and maintains the master files for personnel documents. The section provides instruction and advice to managers at all levels of the department on all aspects of personnel administration and co-ordinates contact between the department and the Civil Service Commission, Management Board, and Finance regarding personnel and payroll matters.



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TABLES AND CHARTS

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SUMMARY OF STATISTICS

1989-90

	1989-90	Increase (Decrease) 1988-89
School Boards (1989-90 Academic year)*		
Number of Boards, September 30	21	-1
Number of Schools, September 30	519	-9
Teachers, September 30	10,897	41
Pupils, September 30	166,263	-1,333
Elementary(p-6, plus Special Education)	87,089	33
Junior High (7-9, plus Special Education)	39,884	-1,033
Senior High (10-12, plus Special Education, Vocational, and Business Education)	39,290	-333
Pupil/Teacher Ratio (Full Time Equivalence)	15.7	-0.1
Average Class Size	21.9	-0.1
Expenditures on Public School Education (1989 Calendar Year)**		
	\$	\$
Municipal Contribution	115,276,266	7,093,936
Other Board Revenues	29,587,780	5,461,138
Provincial Grants (Operating & Capital)	588,571,053	28,569,467
Total Expenditures	733,435,099	41,124,541
Per Capita Expenditure***	829	46
Per Pupil Expenditure	4,411	280
Percentage of Provincial Grants to Total Board Expenditures	80.2%	-0.6%

* Does not include Community Colleges.

** Expenditures as reported in boards financial statements and records
by the Department of Education.

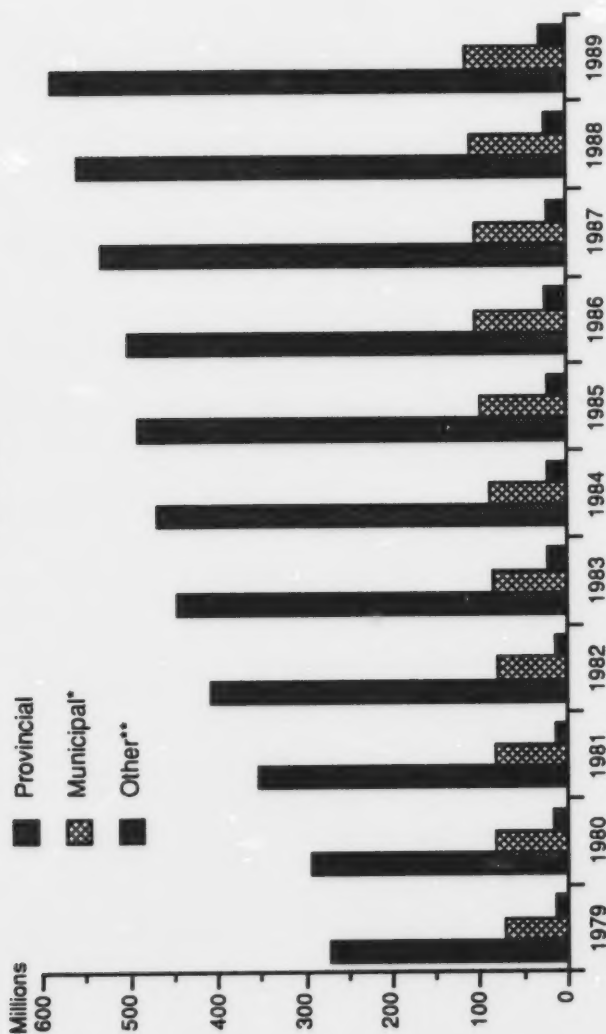
*** Based on estimated total population of Nova Scotia.

SUMMARY OF SCHOOL BOARD FUNDING
1979-1989

Calendar Year	Teachers Sept. 30	Enrolment Sept. 30	Provincial Grants	Municipal Contributions*	Other Board Revenues**	Total Funding	Funding per Pupil
1979	11,072	189,258	269,852,270	69,728,230	12,070,200	351,650,700	1,858
1980	11,016	185,585	292,324,141	82,810,059	15,211,100	390,345,300	2,103
1981	11,000	181,685	352,634,185	82,461,345	13,356,832	448,452,362	2,468
1982	10,961	179,302	409,580,736	80,364,343	13,066,135	503,011,214	2,805
1983	10,770	177,240	447,541,209	85,679,306	20,129,673	553,350,188	3,122
1984	10,814	175,182	468,212,629	88,593,439	20,180,961	576,987,029	3,294
1985	10,751	172,614	490,424,215	96,924,005	22,404,169	609,752,389	3,532
1986	10,664	170,868	501,508,315	102,994,415	24,112,702	628,615,432	3,679
1987	10,708	169,478	531,757,898	103,491,260	22,002,555	657,251,713	3,878
1988	10,856	167,596	560,001,586	108,182,330	24,126,642	692,310,558	4,131
1989	10,897	166,263	588,571,053	115,276,266	29,587,780	733,435,099	4,411

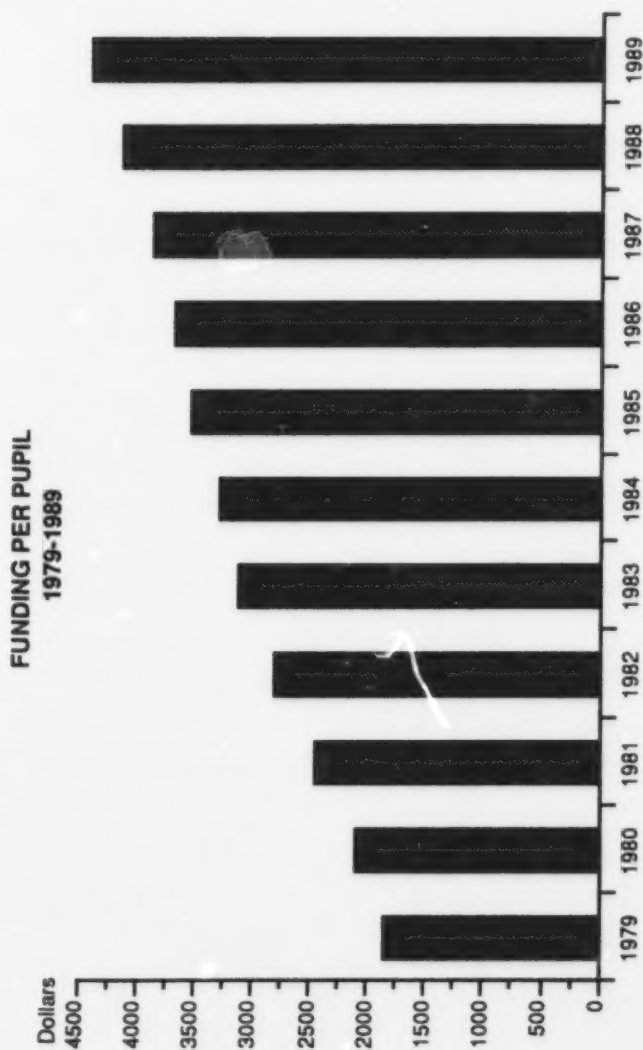
*Municipal Contributions includes Capital.

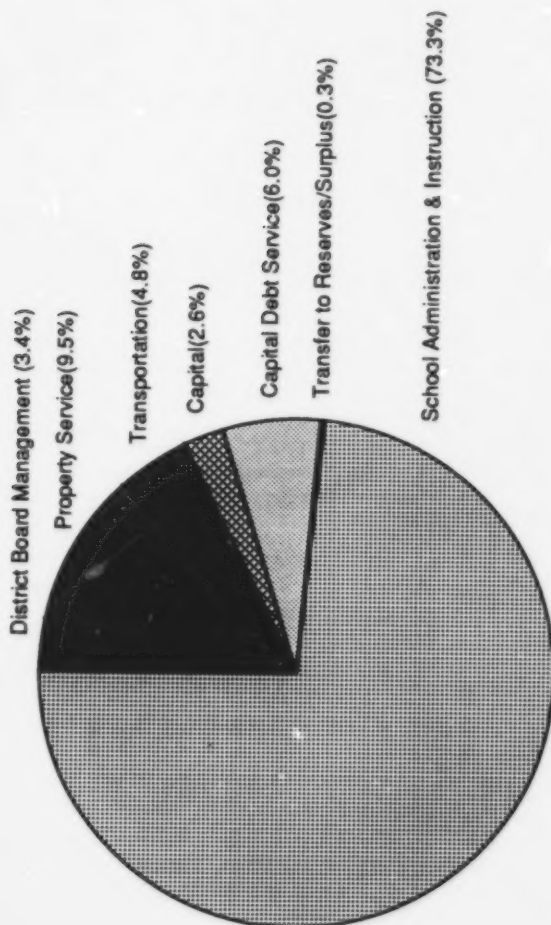
**Other Board Revenues include board-generated revenue, federal revenue (e.g. DND payments, French programs), and revenue from reserves or prior surplus.

SCHOOL BOARD FUNDING
1979-1989

*Municipal Contribution includes Capital.

**Other, includes board-generated revenue, federal revenue, and revenue from reserves.



**SCHOOL BOARD EXPENDITURES
1989**

Total Expenditures: \$733,435,099

**ENROLMENTS BY AGE, GRADE, AND GENDER
PROVINCIAL SUMMARY, SEPTEMBER 30, 1989**

Grade	Total	5 &										21 &				
		Under	6	7	8	9	10	11	12	13	14	15	16	17	18	20 Over
Primary	Male	6,562	6,200	349	3	1										
	Female	6,042	5,872	165	4											1
	Total	12,604	12,081	514	7	1										1
Grade 1	Male	6,517	41	5,741	716	19										
	Female	6,036	67	5,628	339	2										
	Total	12,553	108	11,369	1,055	21										
Grade 2	Male	6,292	57	5,336	861	38										
	Female	5,911	80	5,354	454	22	1									
	Total	12,203	137	10,690	1,315	60	1									
Grade 3	Male	6,175		72	5,008	1,019	69	6	1							
	Female	6,035		1	5,385	530	30	2								
	Total	12,210		1	10,393	1,549	99	8	1							
Grade 4	Male	6,348			118	4,900	1,104	124	7	3	2					
	Female	6,053			143	5,184	657	62	3	4						
	Total	12,401			261	10,174	1,761	186	10	7	2					

Elem - Elementary	TMH - Trainable mentally handicapped
Jr - Junior	Other - Other special education
Sr - Senior	BE - Business education
EMH - Educable mentally handicapped	Voc - Vocational programs operated by district school boards

ENROLMENTS BY AGE, GRADE, AND GENDER
PROVINCIAL SUMMARY, SEPTEMBER 30, 1989 (continued)

ENROLMENTS BY AGE, GRADE, AND GENDER
PROVINCIAL SUMMARY, SEPTEMBER 30, 1989 (continued)

Grade	Total	5 &		6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 & Over
		Under	Over																
Grade 5	6,338						106	4,836	1,182	204	7	1	2						
	Female	6,016					1	5,108	623	94	3			1					
	Total	12,354					1	9,944	1,805	298	10	2	2	1					
Grade 6	6,104							129	4,522	1,202	232	16	3						
	Female	5,939						141	4,959	716	112	10			1				
	Total	12,043						270	9,481	1,918	344	26	3	1					
Elem EMH	142			1	4	12	11	31	31	37	10	3	1						
	Female	107			3	10	18	20	25	19	8	2	1						
	Total	249		1	7	22	29	51	56	56	19	5	1	2					
Elem TMH	101	7	7	7	6	5	9	4	13	11	16	9	2	1	1	5	3	1	1
	Female	55	3	3	2	7	6	8	4	4	1	3	3	5	1	3	2		
	Total	156	10	10	8	12	15	12	17	15	17	12	5	6	2	8	5	1	1
Elem Other	203	3	15	31	24	34	28	31	28	5	1				2		1		
	Female	113	1	10	11	11	15	29	22	10	3				1				
	Total	316	4	25	42	35	49	57	53	38	8	1			3		1		
Elementary Subtotal	44,782	6,260	6,170	6,168	6,048	6,207	6,201	5,909	1,490	273	32	8	2	3	5	4	1	1	
	Female	42,307	5,943	5,887	5,800	6,013	5,960	5,994	5,697	846	132	16	4	7	3	3	2		
	Total	87,089	12,203	12,057	11,968	12,061	12,167	12,195	11,606	2,336	405	48	12	9	6	8	6	1	1

ENROLMENTS BY AGE, GRADE, AND GENDER
PROVINCIAL SUMMARY, SEPTEMBER 30, 1989 (continued)

Grade	Total	5 &		6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21 & Over
		Under	Over																
Grade 10	Male	6,943									3	168	3,938	1,567	849	314	76	20	8
	Female	6,515								1	241	4,386	1,141	487	174	48	20	17	
	Total	13,458								4	409	8,324	2,708	1,336	488	124	40	25	
Grade 11	Male	5,890										2	175	3,526	1,333	585	202	43	24
	Female	6,023								5	209	4,209	1,016	404	90	43	47		
	Total	11,913								7	384	7,735	2,349	989	292	86	71		
Grade 12	Male	5,731										13	240	3,110	1,611	547	139	71	
	Female	5,931								9	319	3,870	1,254	313	92	74			
	Total	11,662								22	559	6,980	2,865	860	231	145			
Sr Bus Ed	Male	31												1	7	8	7	4	
	Female	301												2	65	107	53	25	49
	Total	332												3	72	115	60	29	53
Sr EMH	Male	114																	
	Female	80									3	12	30	24	22	13	10		
	Total	194									2	8	11	20	17	14	8		
Sr TMH	Male	38									5	20	41	44	39	27	18		
	Female	32									1	1	8	4	11	4	7	2	
	Total	70																	
Sr Other	Male	159																	
	Female	75										1	7	44	53	35	12	3	3
	Total	233											6	27	23	8	4	1	5
Senior	Male	18,905									1	13	71	76	44	16	4	8	
	Female	18,957								3	175	4,146	5,416	5,380	2,586	861	226	112	
	Total	37,862								4	248	4,621	5,712	5,406	1,973	529	195	192	
Subtotal	Male	18,957									1	248	4,621	5,712	5,406	1,973	529	195	
	Female	18,957								4	423	8,767	11,128	10,866	4,559	1,390	421	304	
	Total	37,862																	

ENROLLMENTS BY AGE, GRADE, AND GENDER
PROVINCIAL SUMMARY, SEPTEMBER 30, 1969 (continued)

Grade	S.A.		21 &																		
	Total	Under	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Over			
Voc 1	Male	344										25	36	42	100	71	52	68			
	Female	344										2	10	38	96	66	35	97			
	Total	738										27	46	80	196	137	87	165			
Voc 2	Male	218										1	29	27	33	41	42	45			
	Female	77											15	23	13	8	3	15			
	Total	295										1	44	50	46	49	45	60			
Voc 3	Male	94											1	23	36	23	7	4			
	Female	47												15	13	9	4	6			
	Total	141												38	49	32	11	10			
Voc Other	Male	171										31	66	55	15	3	1				
	Female	83										18	34	20	9	2					
	Total	254										49	100	75	24	5	1				
District	Male	877										57	132	147	184	138	102	117			
	Female	551										20	59	96	131	85	42	118			
	Subtotal	1,428										77	191	243	315	223	144	235			
District Board	Male	85,248	6,280	6,170	6,168	6,048	6,207	6,203	6,047	6,153	6,574	6,470	6,419	6,358	5,747	2,823	1,023	337	241		
	Female	81,015	5,943	5,887	5,800	6,013	5,960	5,966	5,969	5,923	6,079	6,129	6,119	6,283	5,681	2,134	629	245	313		
	Total	166,263	12,203	12,057	11,968	12,061	12,167	12,201	11,916	12,076	12,653	12,599	12,538	12,641	11,438	4,957	1,652	582	554		

ENROLMENTS BY SCHOOL BOARD*
1979-80 TO 1989-90

School Board	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87	87-88	88-89	89-90
Annapolis	4,694	4,643	4,501	4,496	4,396	4,327	4,219	4,220	4,181	4,116	4,080
Antigonish	4,911	4,901	4,900	4,842	4,861	4,826	4,783	4,753	4,660	4,646	4,605
Cape Breton	23,441	23,441	22,909	22,371	21,928	21,323	20,768	20,306	20,066	19,652	19,375
Clare-Argyle	3,946	3,848	3,722	3,665	3,554	3,459	3,344	3,285	3,240	3,200	3,147
Colchester-E Hants	13,573	13,268	13,266	13,257	13,245	13,232	13,210	13,284	13,317	13,119	13,026
Cumberland	7,641	7,418	7,238	7,167	6,983	6,843	6,641	6,546	6,412	6,285	6,146
Dartmouth	14,298	13,620	13,073	12,541	12,088	11,823	11,443	11,389	11,201	11,073	10,902
Digby	2,686	2,664	2,600	2,533	2,526	2,501	2,477	2,326	2,261	2,175	2,133
Guysborough	3,071	3,050	3,048	2,989	2,951	2,878	2,740	2,708	2,678	2,593	2,554
Halifax	18,798	18,156	17,348	16,902	16,540	15,958	15,430	14,929	14,713	14,396	14,305
Halifax Co-Bedford	27,262	27,239	27,220	27,363	27,608	27,924	28,186	28,607	29,049	29,426	29,764
Hants West	3,916	3,884	3,701	3,616	3,605	3,648	3,714	3,661	3,680	3,615	3,577
Inverness	5,673	5,561	5,440	5,383	5,194	5,150	5,070	4,942	4,841	4,780	4,635
Kings	11,800	11,652	11,404	11,338	11,437	11,328	11,405	11,322	11,212	11,049	11,095
Lunenburg	8,943	8,837	8,752	8,714	8,644	8,689	8,537	8,520	8,394	8,326	8,187
Northside-Victoria	8,891	8,701	8,445	8,203	7,950	7,759	7,596	7,406	7,282	7,231	7,083
Pictou	11,303	11,352	11,153	11,138	11,080	11,008	10,831	10,746	10,620	10,547	10,433
Queens	2,875	2,786	2,728	2,696	2,704	2,670	2,648	2,607	2,529	2,413	2,350
Richmond	3,361	3,250	3,104	3,055	3,034	2,961	2,855	2,719	2,614	2,489	2,471
Shelburne	3,677	3,624	3,588	3,547	3,477	3,457	3,380	3,274	3,245	3,182	3,100
Yarmouth	3,820	3,690	3,545	3,486	3,435	3,418	3,337	3,318	3,283	3,283	3,295
Totals	189,258	185,585	181,685	179,302	177,240	175,182	172,614	170,868	169,478	167,596	166,263

* For the years prior to the formation of the district school boards, the figures represent the total enrolments in the areas now served by the district boards.

PUPIL/TEACHER(FTE) RATIO BY SCHOOL BOARD*
1980-81 TO 1989-90

School Board	80-81	81-82	82-83	83-84	84-85	85-86	86-87	87-88	88-89	89-90
Annapolis	17.2	16.5	16.6	16.4	16.1	16.6	17.5	16.7	16.3	16.2
Antigonish	17.6	17.6	17.7	17.9	17.4	17.3	17.0	16.3	16.4	16.3
Cape Breton	17.6	17.3	17.2	17.4	16.9	16.7	16.9	16.8	16.5	16.3
Clare-Argyle	17.0	16.5	16.0	15.4	15.1	15.6	15.3	14.9	14.5	14.5
Cochester-E Hants	18.5	18.5	18.0	17.9	17.7	17.7	17.7	17.6	16.8	16.0
Cumberland	17.2	16.8	17.0	17.5	17.2	17.0	16.9	16.6	16.0	15.9
Dartmouth	16.3	16.2	15.3	15.0	15.2	15.1	15.5	15.0	14.6	14.5
Digby	16.5	16.0	15.8	16.4	16.5	16.2	15.3	15.4	14.8	14.8
Guysborough	16.2	16.2	16.0	15.5	15.2	15.2	15.5	15.3	14.6	14.7
Halifax	14.1	13.8	13.7	14.1	13.5	13.4	13.3	13.4	13.3	13.3
Halifax Co-Bedford	17.0	16.7	16.9	17.4	17.2	16.9	16.9	16.8	16.3	16.3
Hants West	18.6	18.2	17.3	17.5	18.0	17.8	17.1	16.8	16.4	16.3
Inverness	16.1	15.4	15.9	16.0	16.0	16.3	16.2	15.8	15.5	15.1
Kings	17.2	17.1	16.9	17.0	16.6	16.8	16.7	16.3	15.6	15.8
Lunenburg	18.5	18.1	17.7	17.6	17.8	17.4	17.8	17.4	17.0	16.7
Northside-Victoria	17.3	17.2	16.7	16.8	16.7	16.5	16.5	16.6	16.3	15.8
Pictou	19.6	19.3	18.0	17.6	17.3	17.4	17.1	16.9	16.9	16.5
Queens	18.6	18.6	18.0	17.4	17.4	16.7	16.7	16.5	15.3	15.7
Richmond	14.8	14.1	14.5	15.6	15.6	15.2	14.5	14.1	13.5	13.7
Shelburne	17.7	17.7	17.7	17.2	17.9	17.4	17.1	17.6	17.9	17.1
Yarmouth	18.3	17.8	16.9	17.4	17.5	17.2	17.9	17.7	17.3	17.1
Totals	17.0	16.8	16.5	16.7	16.5	16.4	16.4	16.2	15.8	15.7

* For the years prior to the formation of the district school boards, the figures represent the ratios in the areas now served by the district boards.

TEACHERS BY CERTIFICATE AND TEACHING YEAR
September 30, 1989

Certificate	Total	1	2	3	4	5	6	7	8	9	10	Max
TC9	467		1	1	1	1	2	1	2	1	4	453
TC7	1,422	2	3	5	5	5	3	10	25	18	14	1,332
TC6	3,670	13	20	24	12	30	53	48	72	96	114	3,188
TC5	4,285	160	173	178	158	142	151	127	145	162	156	2,733
TC4	677	19	25	23	20	16	23	25	27	23		476
TC3	192				1	1						190
TC2	78											78
TC1	7											7
PERMIT	2	1										1
VTC IV	28			2					1			25
VTC III	18				1				3	1	1	12
VTC II	39					1	3	2	1	2	2	28
VTC I	1											1
VTC A	11	4	5		1							1
Totals	10,897	199	227	233	199	196	235	213	276	303	291	8,525

TEACHERS BY CERTIFICATE AND SCHOOL BOARD

September 30, 1989

School Board	Total	TC8	TC7	TC6	TC5	TC4	TC3	TC2	TC1	Per mlt	Exch	Agmt*	VTC4	VTC3	VTC2	VTC1	VPA
Annapolis	262	4	16	88	116	25	7	3	1			2					
Antigonish	263	12	44	98	105	19	4	1									
Cape Breton	1,205	83	183	481	364	56	26	11		1							
Clare-Argyle	222	2	28	72	99	14	6	1									
Colchester-E Hants	835	30	82	276	337	71	9	1				1	13	4	10		1
Cumberland	401	9	24	107	199	42	12	6							2		
Dartmouth	779	48	123	280	284	34	8								2		
Digby	146	3	13	41	69	16	3								1		
Guysborough	176	2	20	56	69	19	3	4						1	2		
Halifax	1,121	100	217	392	360	31	10	3	2					1	2		
Halifax Co-Bedford	1,878	68	274	635	781	75	27	8	1	1		2	1	3	2		
Hants West	226	8	26	71	103	15	1	2					1	3	1		1
Inverness	311	9	25	114	137	15	4	7									
Kings	733	21	94	225	309	39	7	4									
Lunenburg	514	10	50	161	215	54	21	1	1			1	9	6	12		7
Northside-Victoria	450	22	49	151	156	33	12	11	1				5	1	6	1	2
Pictou	642	16	74	215	279	42	11	5									
Queens	154	5	17	43	64	19	3	3									
Richmond	180	10	29	59	63	11	5	3									
Shelburne	183	5	20	41	87	21	5	3									
Yarmouth	196	1	14	59	86	25	8	1	1			1			1		
Totals	10,897	468	1,422	3,665	4,282	676	192	78	7	2	7	29	18	39	1	11	

*Exch Agmt: These are teachers on exchange arrangements.

TEACHERS BY SCHOOL BOARD*
1979-80 TO 1989-90

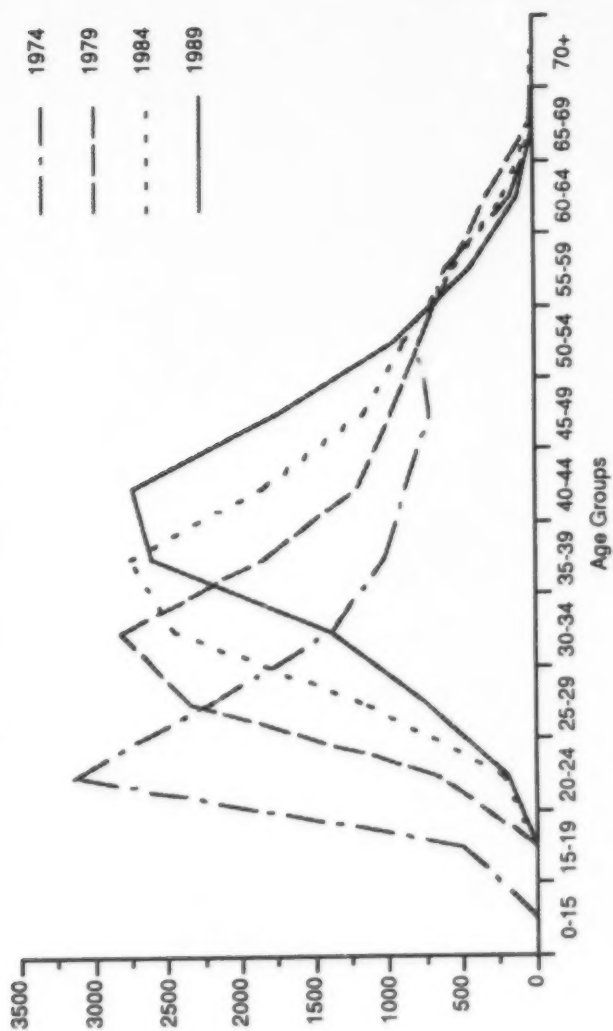
School Board	79-80	80-81	81-82	82-83	83-84	84-85	85-86	86-87	87-88	88-89	89-90
Annapolis	284	280	279	274	274	273	261	247	259	263	262
Antigonish	280	279	279	274	271	277	277	280	288	285	283
Cape Breton	1,354	1,335	1,330	1,301	1,265	1,274	1,253	1,218	1,212	1,202	1,205
Clare-Argyle	235	227	228	231	233	229	216	218	221	225	222
Colchester-E Hants	725	720	728	743	748	754	753	763	770	793	835
Cumberland	439	438	438	425	404	407	400	403	398	408	401
Dartmouth	884	848	827	838	825	801	780	762	771	783	779
Digby	159	161	163	160	154	152	153	154	149	150	146
Guysborough	188	188	189	187	190	190	182	177	177	178	176
Halifax	1,335	1,319	1,274	1,254	1,194	1,206	1,178	1,149	1,131	1,121	1,121
Halifax Co-Bedford	1,573	1,623	1,661	1,642	1,606	1,654	1,707	1,733	1,774	1,852	1,878
Hants West	215	209	205	210	207	205	214	221	226	228	226
Inverness	349	351	357	343	327	324	315	307	310	310	311
Kings	689	683	682	686	693	713	716	713	725	743	733
Lunenburg	477	486	494	505	506	503	507	497	498	512	514
Northside-Victoria	509	505	492	491	477	468	465	453	443	446	450
Pictou	588	584	593	625	639	645	631	637	641	636	642
Queens	151	150	149	151	157	155	159	162	156	164	154
Richmond	224	220	221	211	194	190	188	188	186	184	180
Shelburne	208	207	205	201	204	195	196	193	185	180	183
Yarmouth	206	203	206	209	202	199	200	189	188	193	196
Totals	11,072	11,016	11,000	10,961	10,770	10,814	10,751	10,664	10,708	10,856	10,897

* For the years prior to the formation of the district school boards, the figures represent the number of teachers in the areas now served by the district boards.

TEACHERS BY CERTIFICATE, AGE & GENDER
September 30, 1989

Certificate	Total	20	25	30	35	40	45	50	55	60	65	70
		to 24	to 29	to 34	to 39	to 44	to 49	to 54	to 59	to 64	to 69	and Over
TC 8	Male		1	5	35	99	125	53	14	2		
	Female			5	21	30	29	25	20	4		
	Total		1	10	56	129	154	78	34	6		
TC 7	Male		4	33	169	331	220	109	41	9		
	Female		6	69	122	136	84	32	9			
	Total		10	102	291	467	304	157	73	18		
TC 6	Male		18	121	466	568	332	162	46	3		
	Female	3	68	258	560	509	277	161	85	28		
	Total	3	86	379	1,026	1,077	609	323	131	31		
TC 5	Male		37	155	227	302	262	112	51	20	9	1
	Female		122	419	547	743	598	360	202	88	28	1
	Total		159	574	774	1,045	860	472	253	108	35	2
TC 4	Male		10	22	28	16	20	11	9	3	2	
	Female		15	50	85	121	119	86	48	27	4	
	Total		25	72	113	137	139	97	57	30	6	
TC 3	Male					3	10	4	1	1		
	Female					32	37	47	37	16	4	
	Total					35	47	51	38	16	5	
TC 2	Male							1				
	Female					4	23	36	12	2		
	Total					4	23	37	12	2		
TC 1	Male							1				
	Female							1				
	Total							1				

AGE DISTRIBUTION OF TEACHERS



TEACHERS BY CERTIFICATE AND LEVELS TAUGHT*

September 30, 1989

	Total	TC8	TC7	TC6	TC5	TC4	TC3	TC2	TC1	Per Exch		VTC4	VTC3	VTC2	VTC1	VPA
										mit	Agmt**					
Single Level																
Elementary (P-6)	5,413	112	439	1,696	2,489	461	141	66	7		2					
Junior (7-9)	3,428	131	438	1,197	1,389	201	49	11			4		2	6		
Senior (10-12)	2,744	149	468	1,051	940	87	22	5		1	2	5	5	7	2	
Vocational	128	1	3	25	28	1						21	11	28	1	9
Multi-Level																
Elementary-Junior (P-9)	527	29	65	170	231	26	5	1								
Elementary-Senior (P-12)	154	14	20	52	62	3	1	2								
Junior-Senior (7-12)	975	35	120	358	388	53	16	2			1			2		
Senior-Vocational (10-12,V)	26		1	14	11											
Board Supervisory																
Personnel ***	214	55	78	71	10											
School Supervisory																
Personnel	455	74	172	144	55	5	1			1					3	

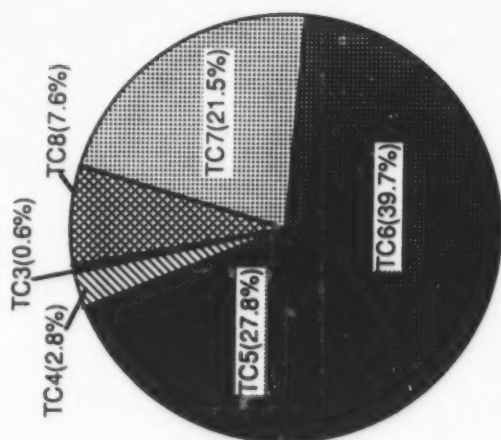
* Level categories overlap, e.g., a teacher of grades 6 and 7 is reported under the categories P-6, 7-9, P-9, P-12, 7-12.

** Exch Agmt: These are teachers on exchange arrangements.

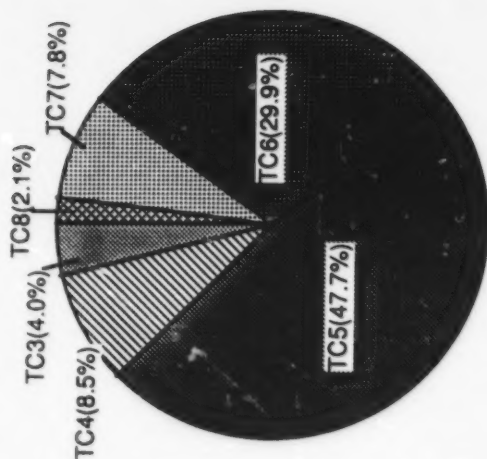
*** Chief education officers, curriculum supervisors, sub-system supervisor.

**** Non-teaching principals and vice-principals.

DISTRIBUTION OF TEACHERS BY CERTIFICATE AND GENDER
SEPTEMBER 30, 1989



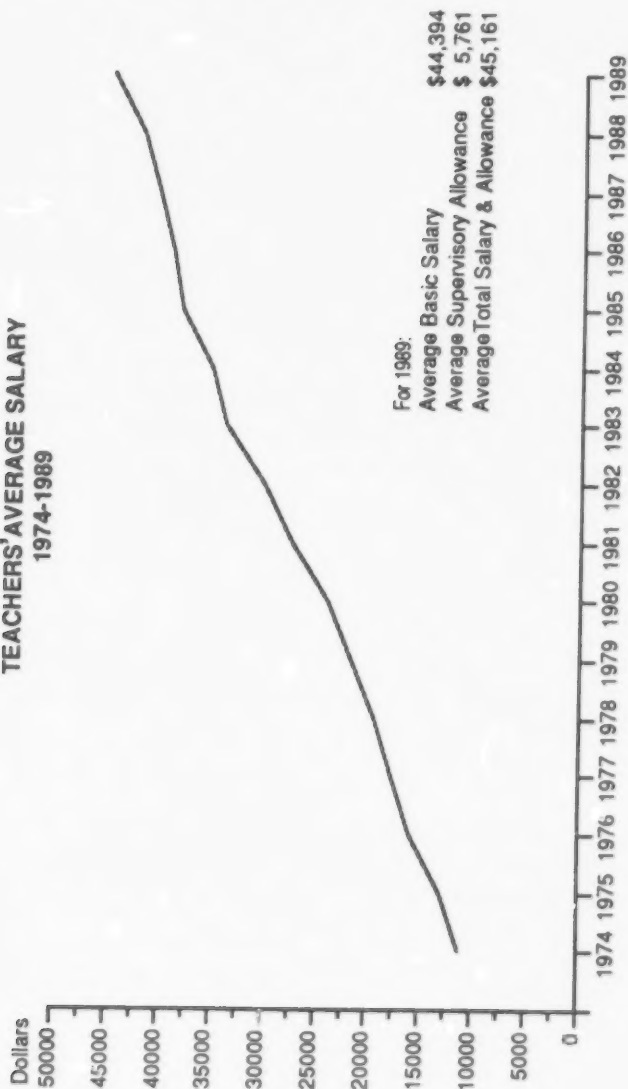
Male



Female

TEACHERS BY CERTIFICATE AND POSITION
September 30, 1989

School Board	Total	TC8	TC7	TC6	TC5	TC4	TC3	TC2	TC1	Per		VTC4	VTC3	VTC2	VTC1	VPA				
										mit	Exch									
Superintendents & Assistants	46	18	16	12																
	Male																			
	Female	1	1																	
	47	19	16	12																
Supervisors and System Consultants	99	25	41	27	5										1					
	Male																			
	Female	70	11	22	29	8														
	169	36	63	56	13										1					
Principals	378	63	146	140	25	3														
	Male																			
	Female	108	11	28	33	23	9	1	3				1							
	486	74	174	173	48	12	1	3												
Vice-Principals	258	35	104	97	17	2														
	Male																			
	Female	117	6	28	44	32	3	4					2		1					
	375	41	132	141	49	5	4						2		1					
Department Heads	191	25	57	73	33	1														
	Male												1							
	Female	77	6	15	27	26	1								2					
	268	31	72	100	59	1	1						1		2					
Regular Classroom Teachers and Specialists	3,401	168	552	1,367	1,096	115	19	1												
	Male																			
	Female	6,151	99	413	1,816	3,017	543	167	74	7			1	5	20	17	32	1	7	4
	9,552	267	965	3,183	4,113	658	186	75	7				2	7	25	17	35	1	11	
TOTAL	4,373	334	916	1716	1176	121	19	1	0											
	Male																			
	Female	6,524	134	506	1949	3106	555	173	77	7			1	5	24	18	34	1	7	4
	10,897	468	1,422	3,665	4,282	676	192	78	7				2	7	29	18	39	1	11	

**TEACHERS' AVERAGE SALARY
1974-1989**

**NOVA SCOTIA DEPARTMENT OF EDUCATION
SUMMARY OF OPERATING EXPENDITURES
FOR THE PERIOD APRIL 1, 1989 TO MARCH 31, 1990**

Senior Management	\$	916,049
Finance and Budgeting		2,940,065
Curriculum Development		6,598,257
Education Resource Services		7,316,997
Inspection Services		1,258,765
Program Services		841,373
Teachers' Pensions		32,056,998

Grants and Assistance

Education Grants	\$	601,518,046	
NS School Book Bureau		6,296,239	
NS Museum		2,762,642	
Regional Public Libraries		6,794,699	617,371,626

Total Expenditure **\$ 669,300,130**

All figures are net of revenue and less chargeable.

Note: In addition to operating expenditure, total capital grants to boards and capital expenditures by the Department of Education were \$17,497,512.

THE NOVA SCOTIA MUSEUM COMPLEX

A. Directly-Managed Branches

1. Nova Scotia Museum - Halifax
2. Maritime Museum of the Atlantic - Halifax
3. Haliburton House - Windsor
4. Uniacke House - Mount Uniacke
5. Prescott House - Starr's Point
6. Lawrence House - Maitland
7. Balmoral Grist Mill - Balmoral
8. Sutherland Steam Mill - Denmark
9. Fisherman's Life Museum - Jeddore
10. Shand House - Windsor
11. Nova Scotia Museum of Industry - Stellarton

B. Locally-Managed Branches**Operated by**

- | | |
|---|--|
| 12. Fisheries Museum of the Atlantic,
Lunenburg | Lunenburg Marine
Museum Society |
| 13. Wile Carding Mill, Bridgewater | DesBrisay Museum |
| 14. Perkins House, Liverpool | Queens County
Historical Society |
| 15. Ross-Thomson House, Shelburne | Shelburne Historical
Society |
| 16. Dory Shop, Shelburne | Shelburne Historical
Society |
| 17. Barrington Meeting House, Barrington | Cape Sable
Historical Society |
| 18. Barrington Woolen Mill, Barrington | Cape Sable
Historical Society |
| 19. Firefighters Museum of Nova Scotia,
Yarmouth | Firefighters Museum
Society |
| 20. North Hills Museum, Granville Ferry | Historic Restoration
Society of Annapolis
County |
| 21. McCulloch House, Pictou | Hector Centre Trust |
| 22. Sherbrooke Village | Sherbrooke Village
Commission |
| 23. Cossit House, Sydney | Old Sydney Society |
| 24. Ross Farm, New Ross | New Ross District
Museum Society |

THE NOVA SCOTIA MUSEUM COMPLEX (continued)**C. Special Places**

- | | | |
|----|-----------------------------------|--------------------|
| 1. | Joggins Fossil Site | Cumberland County |
| 2. | Debert Paleo-Indian Site | Colchester County |
| 3. | Old French Mine, Port Morien | Cape Breton County |
| 4. | Fletcher Lock, Shubenacadie Canal | Halifax County |
| 5. | Tusket River Nature Reserve | Yarmouth County |
| 6. | MacFarlane Woods Nature Reserve | Inverness County |
| 7. | Parrsboro Fossil Site | Cumberland County |
| 8. | Sporting Lake Nature Reserve | Digby County |
| 9. | Indian Man Lake Nature Reserve | Guysborough County |

NOVA SCOTIA MUSEUM GRANT PROGRAM, 1989-90

OPERATING GRANTS

Year-Round Museums

1. Amherst - Cumberland County Museum	\$27,000
2. Bridgewater - DesBrisay Museum	44,000
3. Cole Harbour - Heritage Farm Museum	39,700
4. Dartmouth - Dartmouth Heritage Museum	23,000
5. Glace Bay - Miners Museum	87,000
6. Halifax - Army Museum	31,000
7. Iona - Nova Scotia Highland Village	77,600
8. Kentville - Old Kings Courthouse Heritage Museum	27,900
9. Liverpool - Queen's County Museum	33,300
10. Middleton - Annapolis Valley Macdonald Museum	55,500
11. Parrsboro - Cumberland Geological Museum	31,300
12. Pictou - Hector National Exhibit Centre	29,000
13. Shelburne - Shelburne County Museum	39,600
14. Sydney - Cape Breton Centre for Heritage & Science (& St. Patrick's Church Museum)	29,600
15. Truro - Colchester County Museum	47,800
16. Yarmouth - Yarmouth County Museum	43,600

Seasonal Museums

1. Annapolis Royal - Historic Restoration Society - MacNamara House & O'Dell Museum	7,200
2. Arichat - Lenoir Forge Museum	2,100
3. Barrington - Cape Sable Historical Society Centre & Seal Island Light Museum	3,500
4. Bridgetown - James House	6,500
5. Canso - Whitman House	6,300
6. Cape North - North Highlands Community Museum	3,000
7. Cape Sable Island - Archelaus Smith Museum	2,800
8. Cheticamp - Acadian Museum	2,000
9. Cheticamp - Musée Les Trois Pignons	4,000
10. Church Point - Le Musée Ste-Marie	2,600
11. Dartmouth - Quaker Whaler House	9,600
12. Digby - Admiral Digby Museum	5,200
13. East Lake Ainslie - Macdonald House Museum	8,500
14. Guysborough - Old Courthouse Museum	3,800

NOVA SCOTIA MUSEUM GRANT PROGRAM, 1989-90
(continued)

15. Inverness - Inverness Miners Museum	5,000
16. LaHave - Fort Point Museum	4,000
17. Lockeport - Little School Museum	1,330
18. Louisbourg - Sydney & Louisbourg Railway Museum	3,800
19. Mahone Bay - Settlers Museum	21,300
20. Marble Mountain - Marble Mountain Museum	1,200
21. Margaree - Margaree Salmon Museum	8,450
22. Minudie - Amos Seaman School Museum	3,000
23. Musquodoboit Harbour - Musquodoboit Railway Museum	3,500
24. New Glasgow - Stewart House	7,300
25. Parkdale - Parkdale-Maplewood Community Museum	6,700
26. Port Hastings - Port Hastings Museum & Archives	7,000
27. Pubnico - Le Musée Acadien de Pubnico Ouest	2,000
28. South Rawdon - South Rawdon Museum	2,900
29. Stellarton - Stellarton Mining Museum	1,200
30. St. Peters - Nicholas Denys Museum	2,200
31. Tatamagouche - Sunrise Trail Museum	1,400
32. Tupperville - Tupperville School Museum	2,500
33. Wolfville - Randall House	2,100

OTHER GRANTS

1. Nova Scotia Bird Society (publication)	2,000
2. Nova Scotia Institute of Science (publication)	1,000
3. Canadian Council on Ecological Areas (sustaining grant)	2,500
4. West Hants Historical Society (publication)	1,000
5. Heritage Association of Antigonish (computer hardware)	8,000
6. South Rawdon Museum (emergency repairs)	10,200
7. Mahone Bay Settlers Museum (exhibit furniture construction)	7,500
8. Sunrise Trail Museum (renovations)	2,100

SPECIAL PLACES

1. Ponhook Lake Survey, Cathy Keddy	2,700
2. Lake Survey, S.W. Nova Scotia, P. Keddy/N. Hill	7,500
3. Chegoggin River Survey, S. Davis/D. Sanger	1,000
4. Work on Paleobotany Collection at UCCB, E. Zodzow	2,000
5. Meander River Survey, Shelley Porter, Acadia	2,000

REGIONAL PUBLIC LIBRARY GRANTS
FOR THE YEAR 1989-90

Regional Library Board	Operating	French	Maintenance	Total	Capital
Group 1					
Annapolis Valley	668,893		22,480	691,373	
Cape Breton	1,054,608		45,448	1,100,056	
Colchester-East Hants	465,128		14,725	479,853	53,190
Cumberland	277,500		13,614	291,114	127,155
Eastern Counties	494,681	24,733	22,229	541,643	
Halifax County	860,266		49,929	910,195	509,950
Pictou-Antigonish	514,033		18,857	532,890	620,262
South Shore	409,038		5,496	414,534	
Western Counties	<u>509,638</u>	<u>25,465</u>	<u>20,650</u>	<u>555,753</u>	<u>156,025</u>
Subtotal (Group 1)	<u>5,253,785</u>	<u>50,198</u>	<u>213,428</u>	<u>5,517,411</u>	<u>1,466,582</u>
Group 2					
Dartmouth	605,097		23,935	629,032	589,789
Group 3					
Halifax City	<u>599,191</u>	<u>----</u>	<u>49,066</u>	<u>648,257</u>	<u>341,200</u>
Subtotal (Group 2 & 3)	<u>1,204,288</u>	<u>----</u>	<u>73,001</u>	<u>1,277,289</u>	<u>930,989</u>
Grand Total	<u>\$ 6,458,073</u>	<u>\$ 50,198</u>	<u>\$ 286,429</u>	<u>\$ 6,794,700</u>	<u>\$ 2,397,571</u>

**NOVA SCOTIA SCHOOL BOOK BUREAU
STATEMENT OF OPERATIONS
FISCAL YEAR APRIL 1, 1989 TO MARCH 31, 1990**

Disbursements

Purchase of learning materials	\$6,296,200
Freight and mailing costs	92,700
Salaries	363,400
Other	<u>62,200</u>
	<u>\$6,814,500</u>

Receipts

Sales	<u>\$436,500</u>
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Inventories

On hand, March 31, 1989	\$817,794
On hand, March 31, 1990	906,225

Quantity of Textbooks and Material Distributed

Textbooks, primary to grade 6	505,000
Textbooks, grades 7-12	450,000
Textbooks, special education/specialized reading	8,100
Textbooks, acadiennes	56,000
Textbooks, miscellaneous	75,000
Career education materials	<u>74,000</u>
	1,168,100

P & R Releases, Education N.S., Others	118,200
Cumulative record cards, manuals	46,500
Teaching guides, curriculum bulletins	9,500
Miscellaneous	<u>748,400</u>
	<u>922,600</u>